COPY OF PAPERS
ORIGINALLY FILED

FIG. 1A

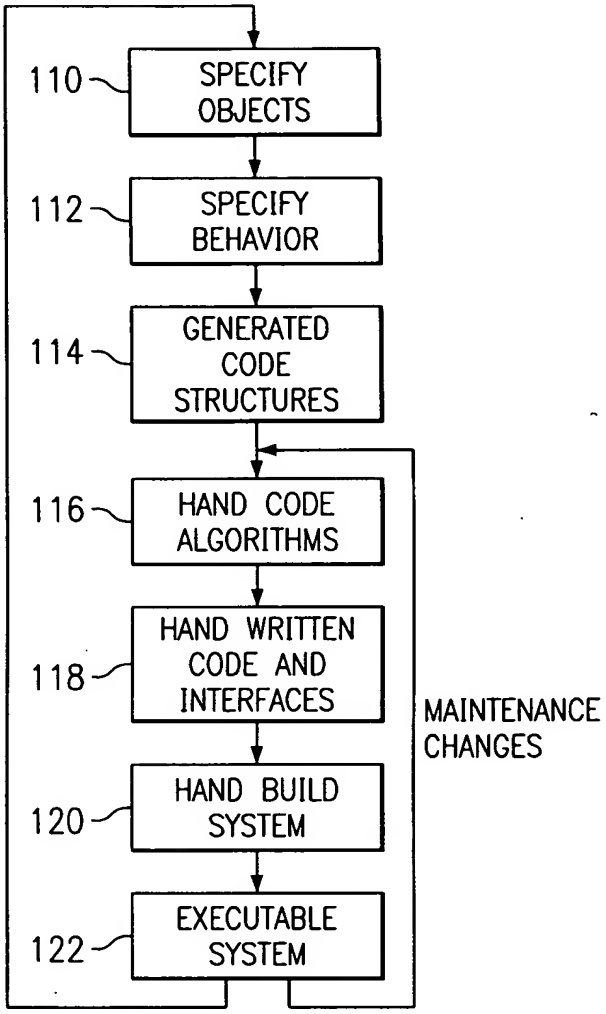


FIG. 1B

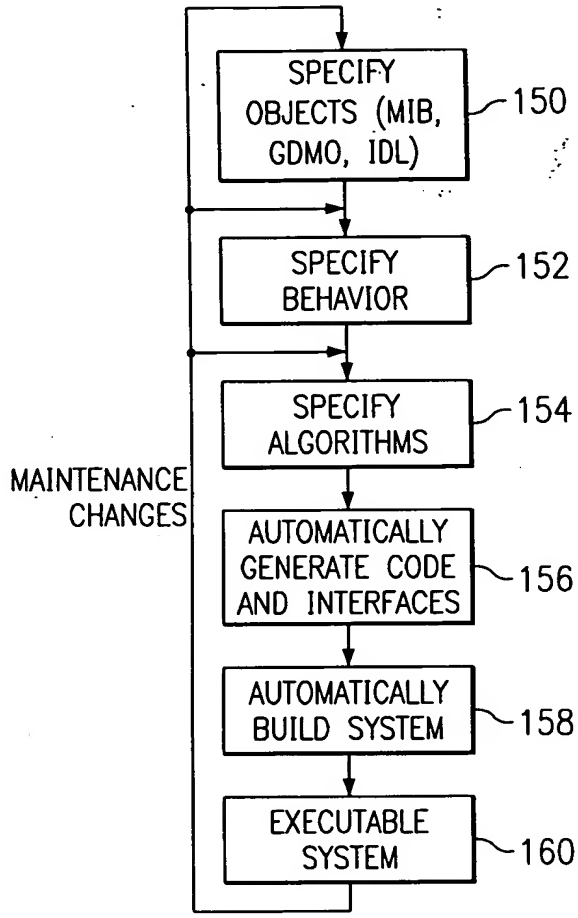


FIG. 2

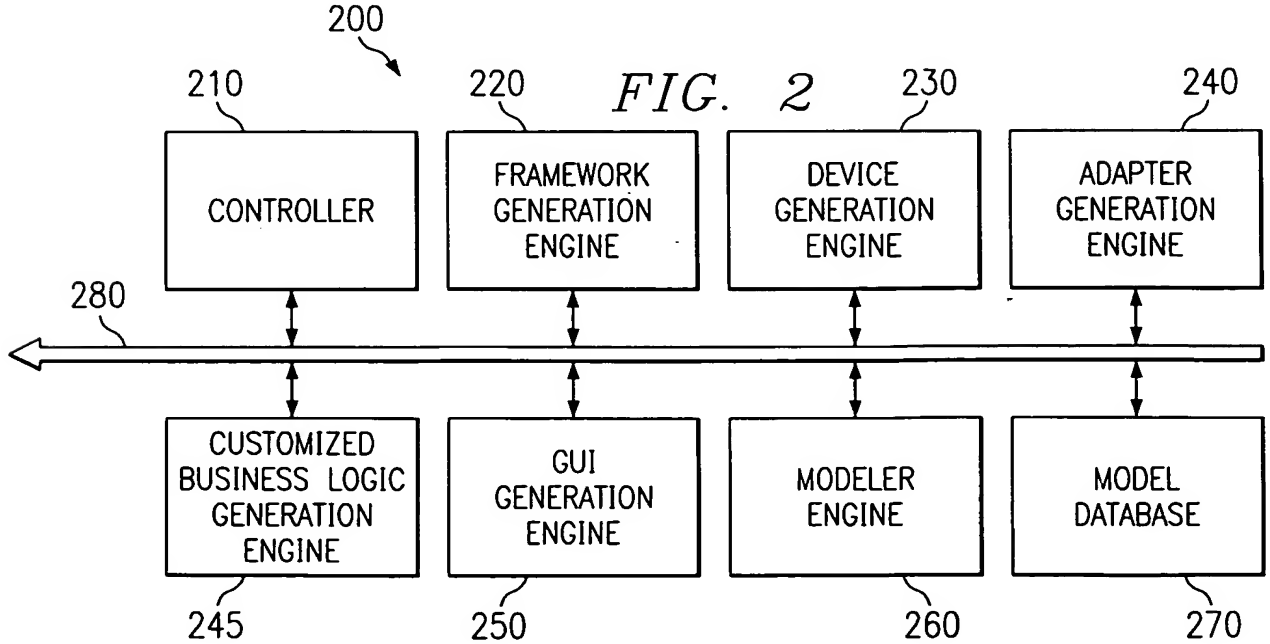


FIG. 3

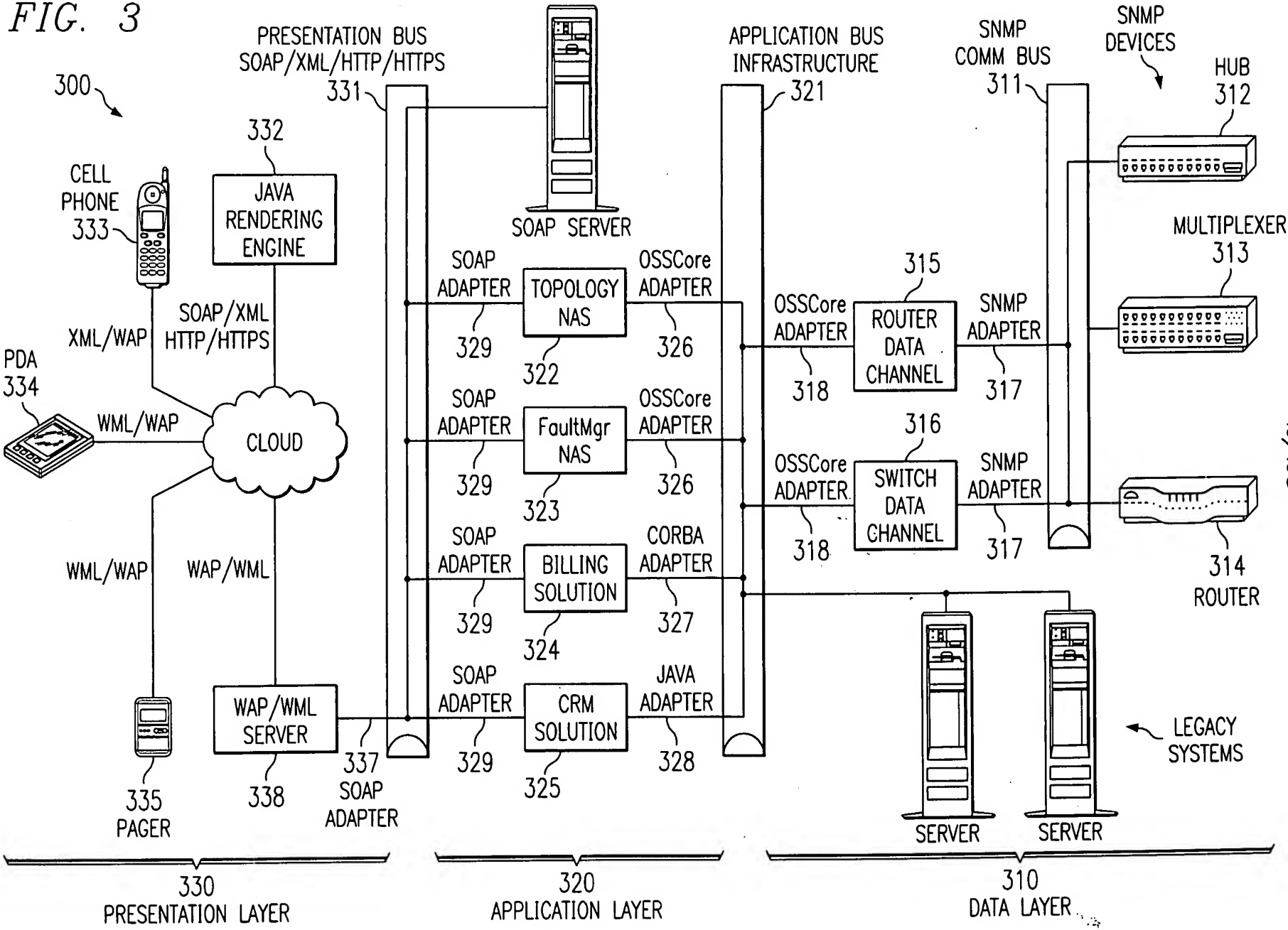

300
PRESENTATION BUS
SOAP/XML/HTTP/HTTPS
331
APPLICATION BUS
INFRASTRUCTURE
321
SNMP
COMM BUS
311
SNMP
DEVICES
HUB
312
332
JAVA
RENDERING
ENGINE
CELL
PHONE
333
SOAP SERVER
MULTIPLEXER
313
SOAP
ADAPTER
TOPOLOGY
NAS
OSSCore
ADAPTER
315
OSSCore
ADAPTER
ROUTER
DATA
CHANNEL
SNMP
ADAPTER
329
322
326
318
317
XML/WAP
SOAP/XML
HTTP/HTTPS
PDA
334
SOAP
ADAPTER
FaultMgr
NAS
OSSCore
ADAPTER
316
OSSCore
ADAPTER
SWITCH
DATA
CHANNEL
SNMP
ADAPTER
WML/WAP
CLOUD
329
323
326
318
317
314
ROUTER
SOAP
ADAPTER
BILLING
SOLUTION
CORBA
ADAPTER
WML/WAP
WAP/WML
329
324
327
SOAP
ADAPTER
CRM
SOLUTION
JAVA
ADAPTER
WAP/WML
SERVER
LEGACY
SYSTEMS
329
325
328
337
SOAP
ADAPTER
335
PAGER
338
SERVER
SERVER
330
PRESENTATION LAYER
320
APPLICATION LAYER
310
DATA LAYER

FIG. 4

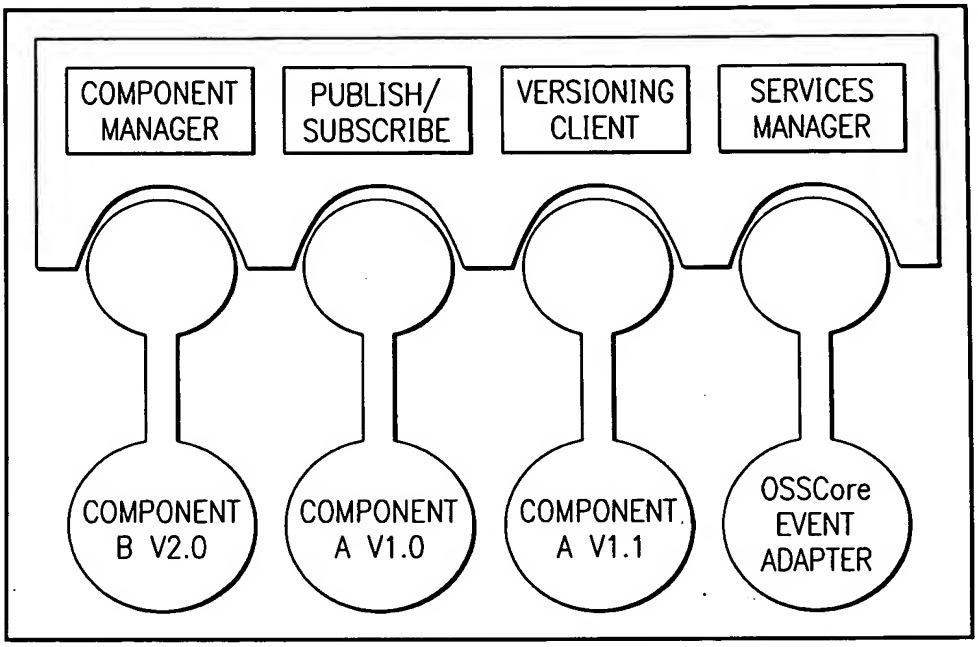

COMPONENT MANAGER
PUBLISH/ SUBSCRIBE
VERSIONING CLIENT
SERVICES MANAGER
COMPONENT B V2.0
COMPONENT A V1.0
COMPONENT A V1.1
OSSCore EVENT ADAPTER

FIG. 5

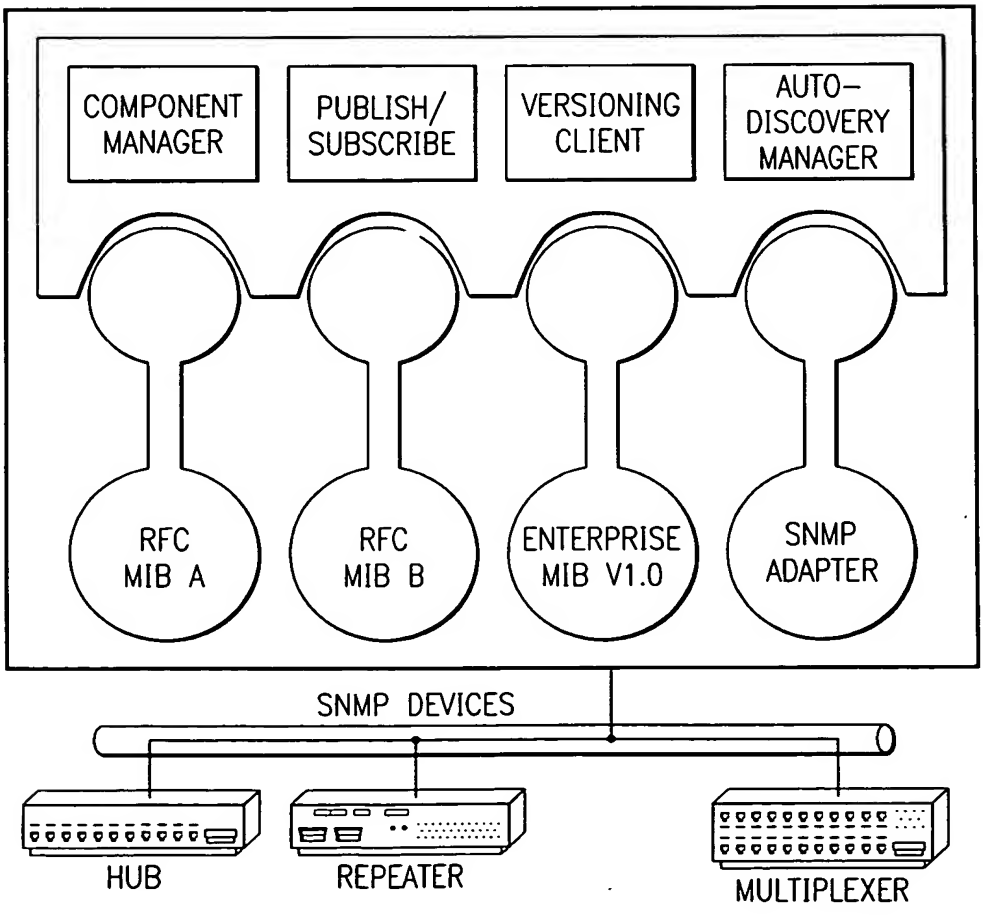

COMPONENT MANAGER
PUBLISH/ SUBSCRIBE
VERSIONING CLIENT
AUTO– DISCOVERY MANAGER
RFC MIB A
RFC MIB B
ENTERPRISE MIB V1.0
SNMP ADAPTER
SNMP DEVICES
HUB
REPEATER
MULTIPLEXER

FIG. 6

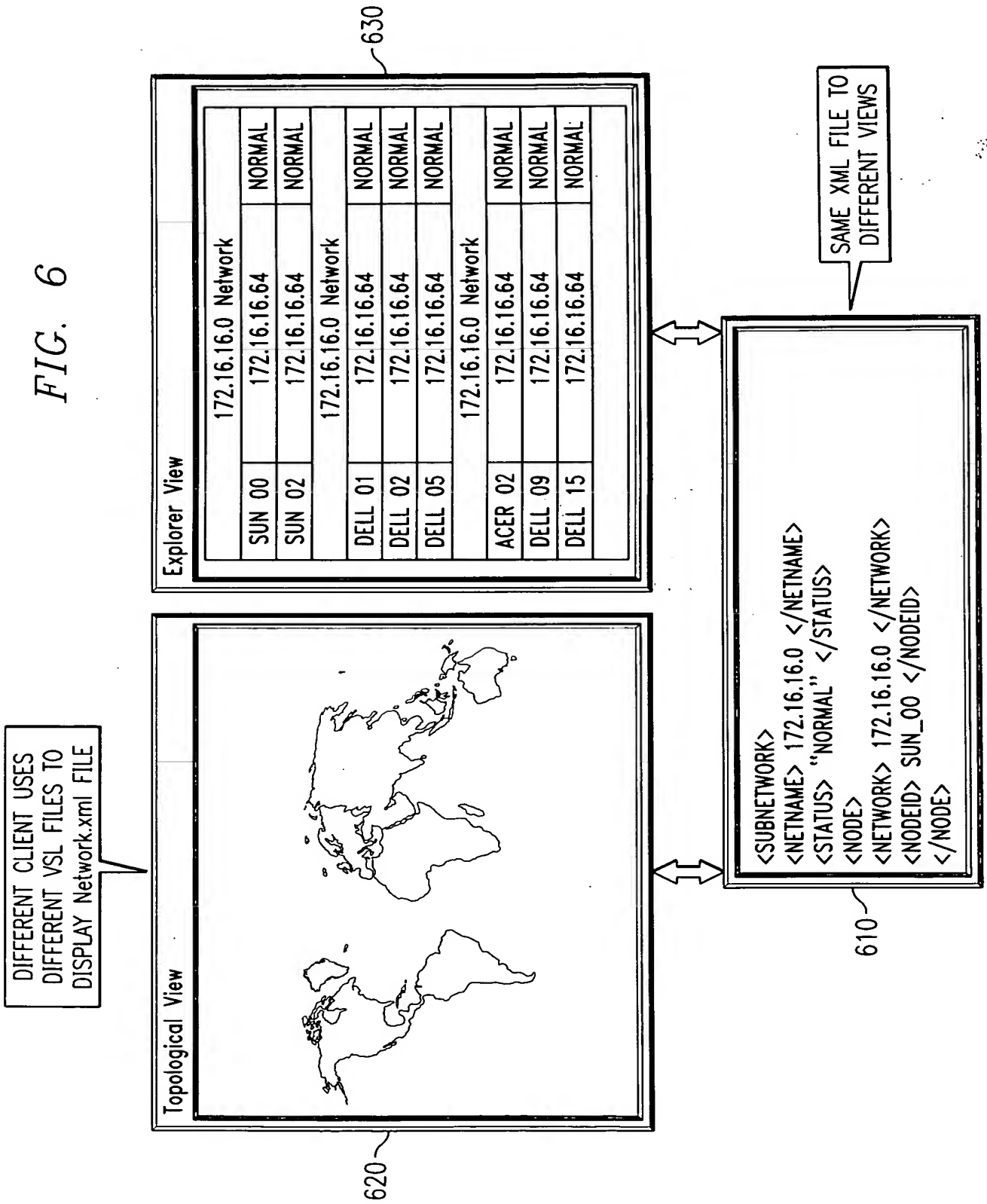

630
Explorer View
172.16.16.0 Network
SUN 00 | 172.16.16.64 | NORMAL
SUN 02 | 172.16.16.64 | NORMAL
172.16.16.0 Network
DELL 01 | 172.16.16.64 | NORMAL
DELL 02 | 172.16.16.64 | NORMAL
DELL 05 | 172.16.16.64 | NORMAL
172.16.16.0 Network
ACER 02 | 172.16.16.64 | NORMAL
DELL 09 | 172.16.16.64 | NORMAL
DELL 15 | 172.16.16.64 | NORMAL
SAME XML FILE TO DIFFERENT VIEWS
<SUBNETWORK>
<NETNAME> 172.16.16.0 </NETNAME>
<STATUS> "NORMAL" </STATUS>
<NODE>
<NETWORK> 172.16.16.0 </NETWORK>
<NODEID> SUN_00 </NODEID>
</NODE>
610
DIFFERENT CLIENT USES DIFFERENT VSL FILES TO DISPLAY Network.xml FILE
Topological View
620

FIG. 7

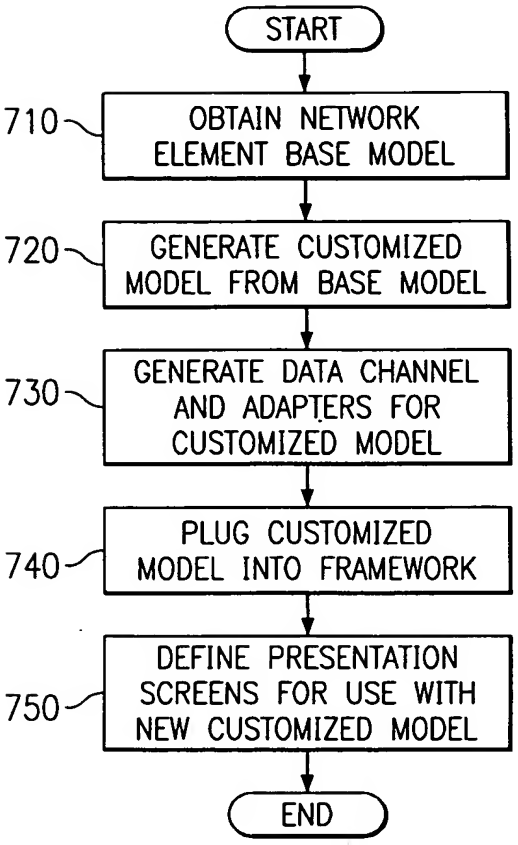


FIG. 8

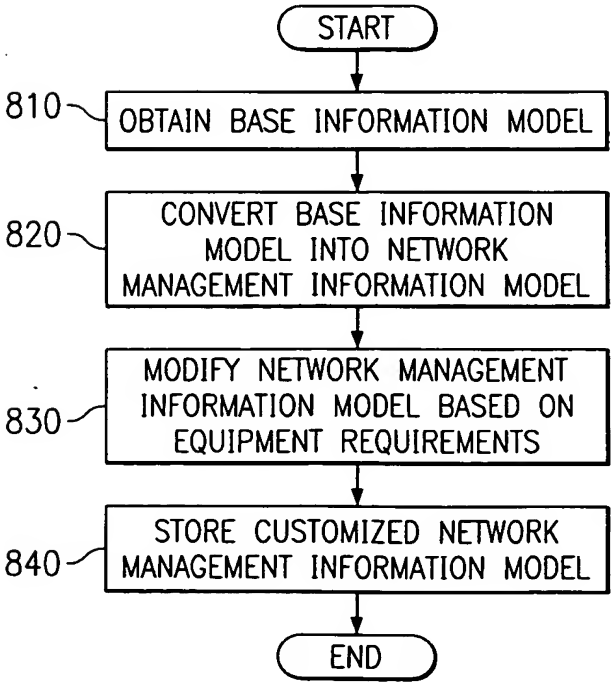


FIG. 9

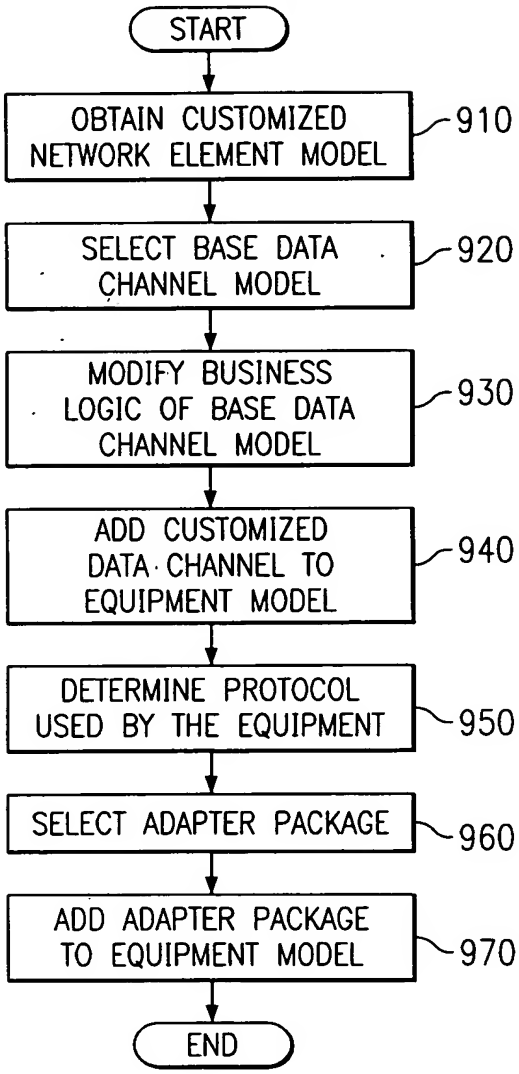
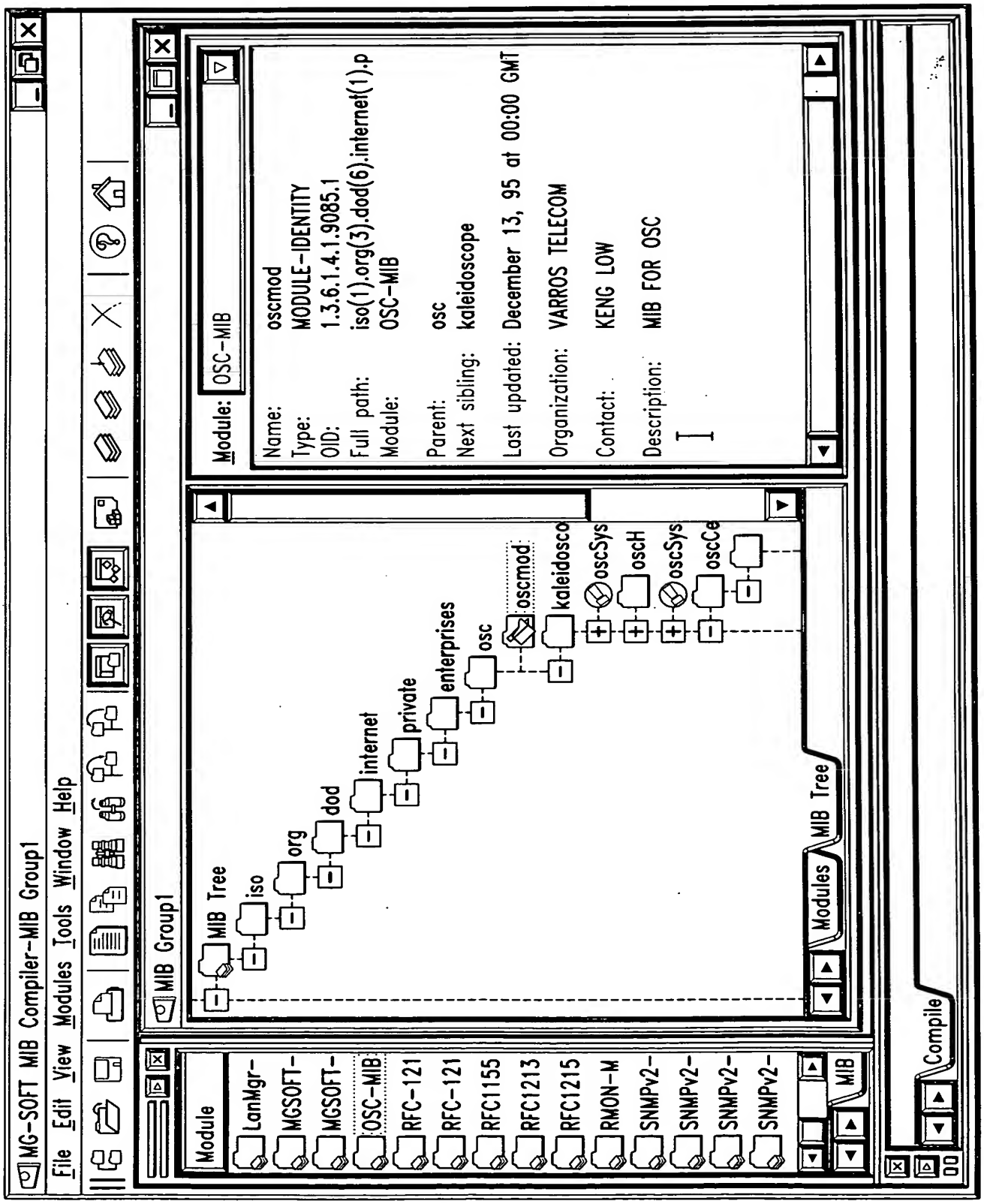


FIG. 10


MG-SOFT MIB Compiler-MIB Group1
File Edit View Modules Tools Window Help
MIB Group1
Module
LanMgr-
MGSOFT-
MGSOFT-
OSC-MIB
RFC-121
RFC-121
RFC1155
RFC1213
RFC1215
RMON-M
SNMPv2-
SNMPv2-
SNMPv2-
SNMPv2-
MIB
MIB Tree
iso
org
dod
internet
private
enterprises
osc
oscmod
kaleidosco
oscSys
oscH
oscSys
oscCe
Modules
MIB Tree
Module: OSC-MIB
Name: oscmod
Type: MODULE-IDENTITY
OID: 1.3.6.1.4.1.9085.1
Full path: iso(1).org(3).dod(6).internet(1).p
Module: OSC-MIB
Parent: osc
Next sibling: kaleidoscope
Last updated: December 13, 95 at 00:00 GMT
Organization: VARROS TELECOM
Contact: KENG LOW
Description: MIB FOR OSC
Compile

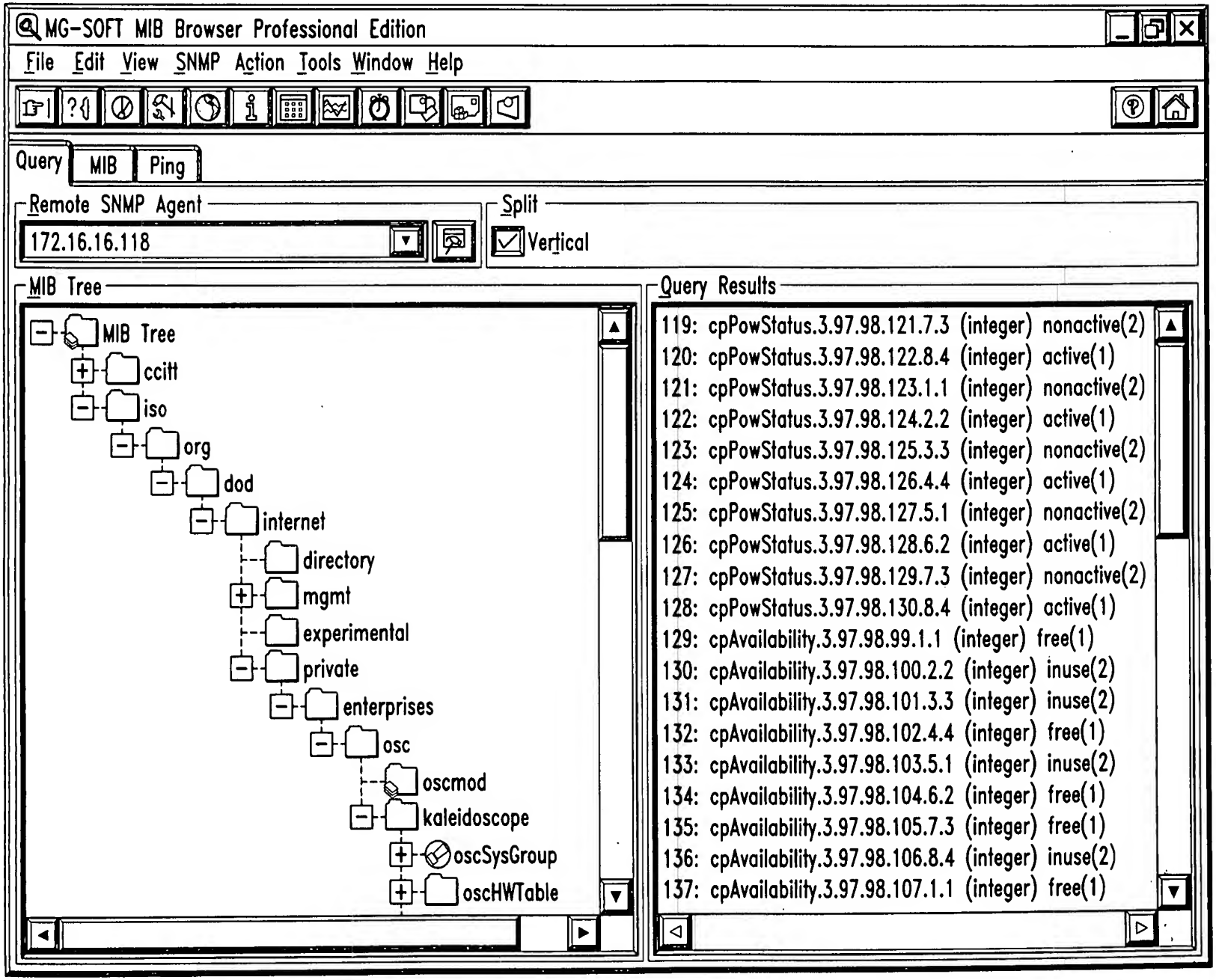

MG-SOFT MIB Browser Professional Edition
File Edit View SNMP Action Tools Window Help
Query
MIB
Ping
Remote SNMP Agent
172.16.16.118
Split
Vertical
MIB Tree
MIB Tree
ccitt
iso
org
dod
internet
directory
mgmt
experimental
private
enterprises
osc
oscmod
kaleidoscope
oscSysGroup
oscHWTable
Query Results
119: cpPowStatus.3.97.98.121.7.3 (integer) nonactive(2)
120: cpPowStatus.3.97.98.122.8.4 (integer) active(1)
121: cpPowStatus.3.97.98.123.1.1 (integer) nonactive(2)
122: cpPowStatus.3.97.98.124.2.2 (integer) active(1)
123: cpPowStatus.3.97.98.125.3.3 (integer) nonactive(2)
124: cpPowStatus.3.97.98.126.4.4 (integer) active(1)
125: cpPowStatus.3.97.98.127.5.1 (integer) nonactive(2)
126: cpPowStatus.3.97.98.128.6.2 (integer) active(1)
127: cpPowStatus.3.97.98.129.7.3 (integer) nonactive(2)
128: cpPowStatus.3.97.98.130.8.4 (integer) active(1)
129: cpAvailability.3.97.98.99.1.1 (integer) free(1)
130: cpAvailability.3.97.98.100.2.2 (integer) inuse(2)
131: cpAvailability.3.97.98.101.3.3 (integer) inuse(2)
132: cpAvailability.3.97.98.102.4.4 (integer) free(1)
133: cpAvailability.3.97.98.103.5.1 (integer) inuse(2)
134: cpAvailability.3.97.98.104.6.2 (integer) free(1)
135: cpAvailability.3.97.98.105.7.3 (integer) free(1)
136: cpAvailability.3.97.98.106.8.4 (integer) inuse(2)
137: cpAvailability.3.97.98.107.1.1 (integer) free(1)

FIG. 11

FIG. 12

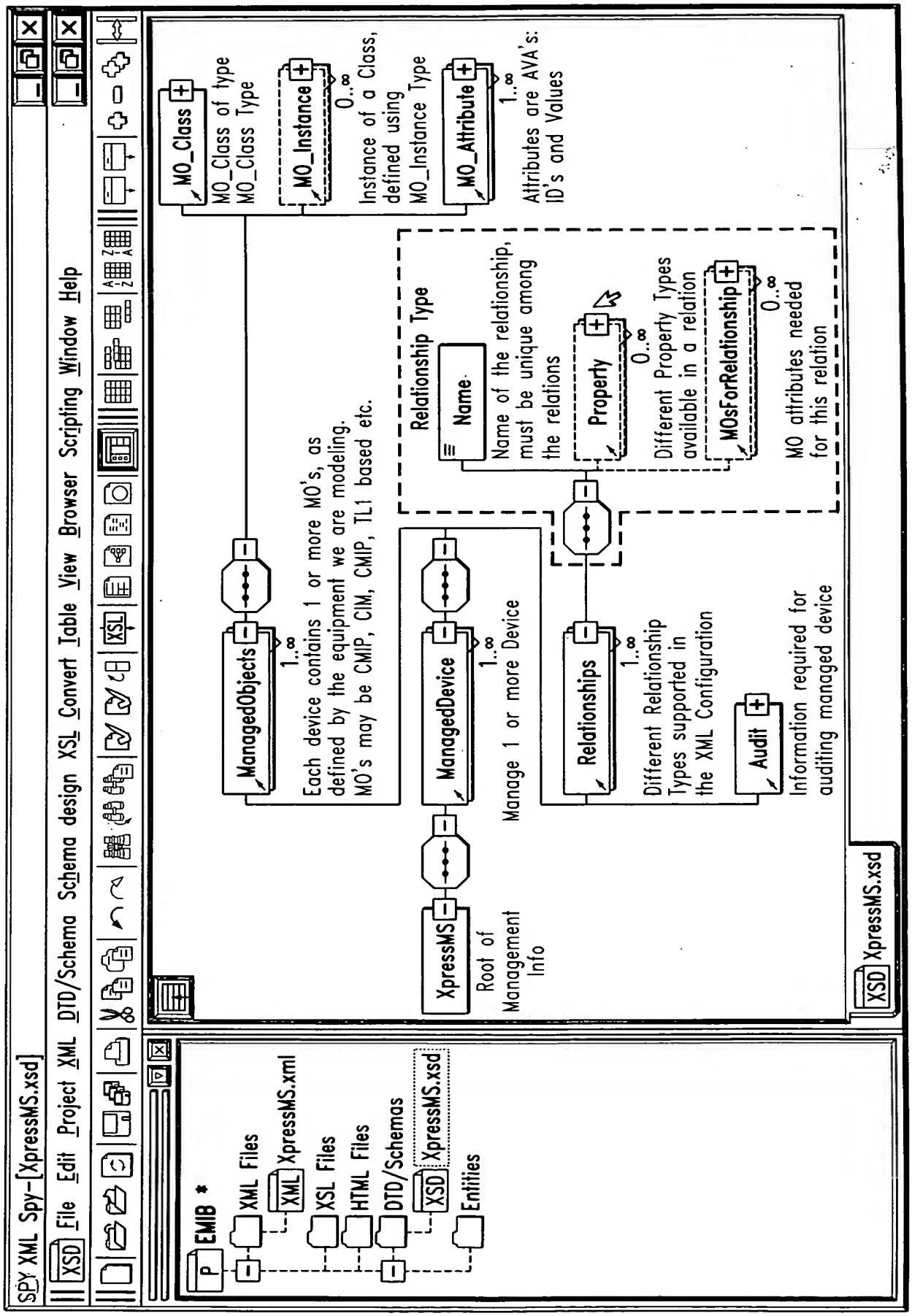

SPY XML Spy-[XpressMS.xsd]
File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
XpressMS
Root of Management Info
ManagedDevice
1..∞
Manage 1 or more Device
ManagedObjects
1..∞
Each device contains 1 or more MO's, as defined by the equipment we are modeling. MO's may be CMIP, CIM, CMIP, TL1 based etc.
MO_Class
MO_Class of type MO_Class Type
MO_Instance
0..∞
Instance of a Class, defined using MO_Instance Type
MO_Attribute
1..∞
Attributes are AVA's: ID's and Values
Relationship Type
Name
Name of the relationship, must be unique among the relations
Property
0..∞
Different Property Types available in a relation
MOsForRelationship
0..∞
MO attributes needed for this relation
Relationships
1..∞
Different Relationship Types supported in the XML Configuration
Audit
Information required for auditing managed device
XpressMS.xsd

FIG. 13

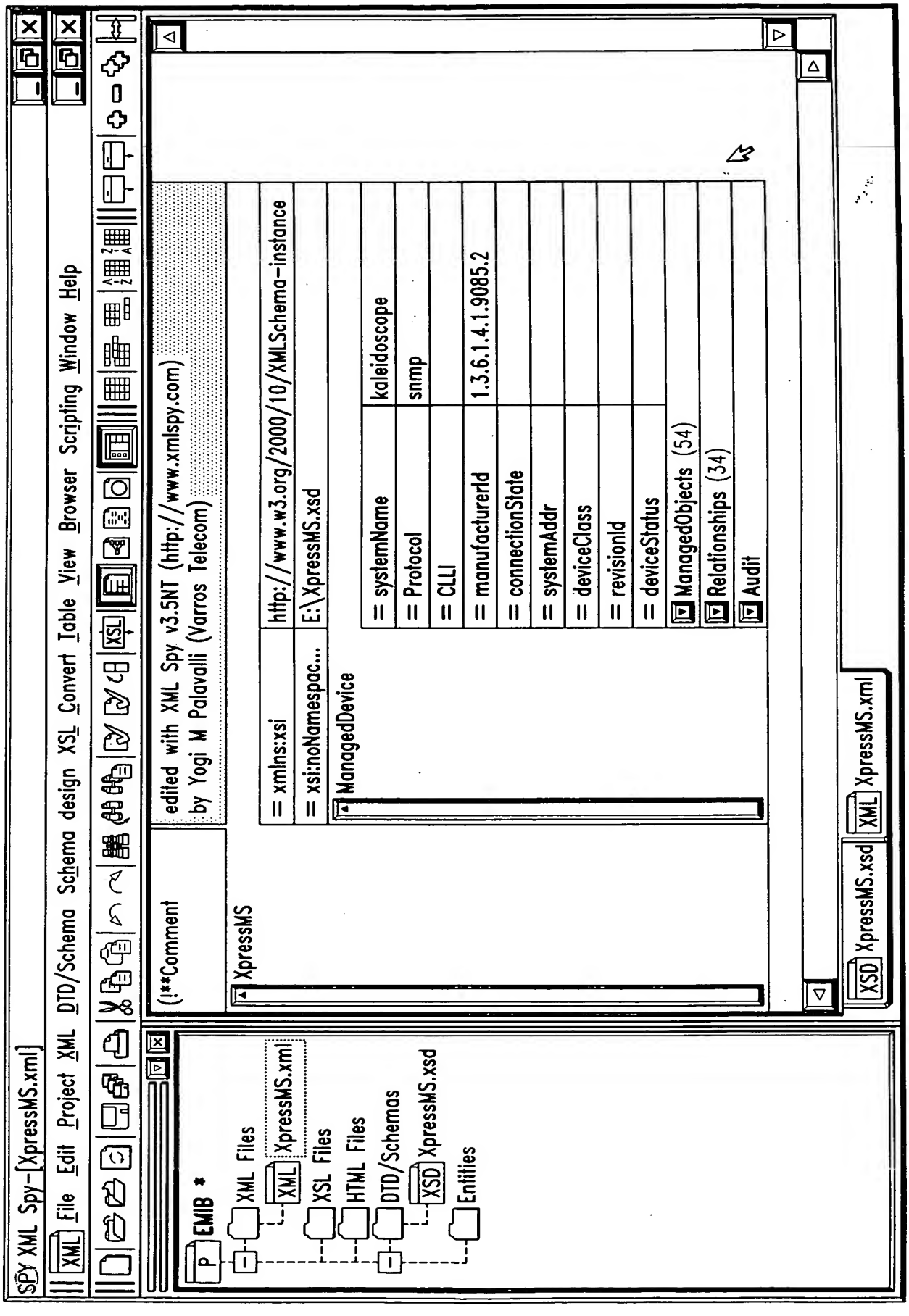

SPY XML Spy-[XpressMS.xml]
File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
(!**Comment
edited with XML Spy v3.5NT (http://www.xmlspy.com)
by Yogi M Palavalli (Varros Telecom)
XpressMS
= xmlns:xsi
http://www.w3.org/2000/10/XMLSchema-instance
= xsi:noNamespac...
E:\XpressMS.xsd
ManagedDevice
= systemName
kaleidoscope
= Protocol
snmp
= CLLI
= manufacturerId
1.3.6.1.4.1.9085.2
= connectionState
= systemAddr
= deviceClass
= revisionId
= deviceStatus
ManagedObjects (54)
Relationships (34)
Audit
XSD XpressMS.xsd
XML XpressMS.xml

FIG. 14

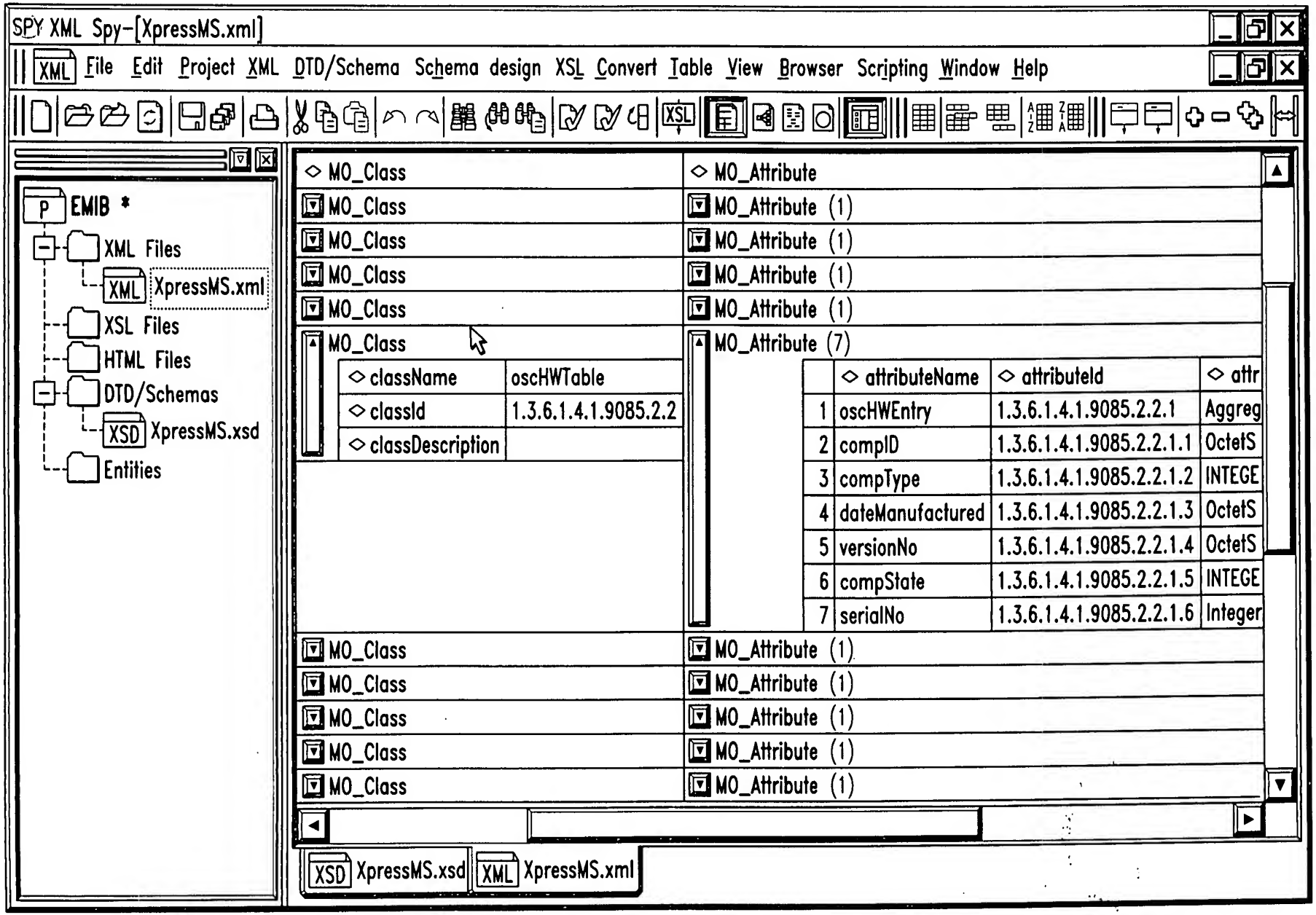

SPY XML Spy-[XpressMS.xml]
XML File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
MO_Class
MO_Attribute
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (7)
className
oscHWTable
classId
1.3.6.1.4.1.9085.2.2
classDescription
attributeName
attributeId
attr
1 oscHWEntry 1.3.6.1.4.1.9085.2.2.1 Aggreg
2 compID 1.3.6.1.4.1.9085.2.2.1.1 OctetS
3 compType 1.3.6.1.4.1.9085.2.2.1.2 INTEGE
4 dateManufactured 1.3.6.1.4.1.9085.2.2.1.3 OctetS
5 versionNo 1.3.6.1.4.1.9085.2.2.1.4 OctetS
6 compState 1.3.6.1.4.1.9085.2.2.1.5 INTEGE
7 serialNo 1.3.6.1.4.1.9085.2.2.1.6 Integer
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
MO_Class
MO_Attribute (1)
XpressMS.xsd
XpressMS.xml

FIG. 15

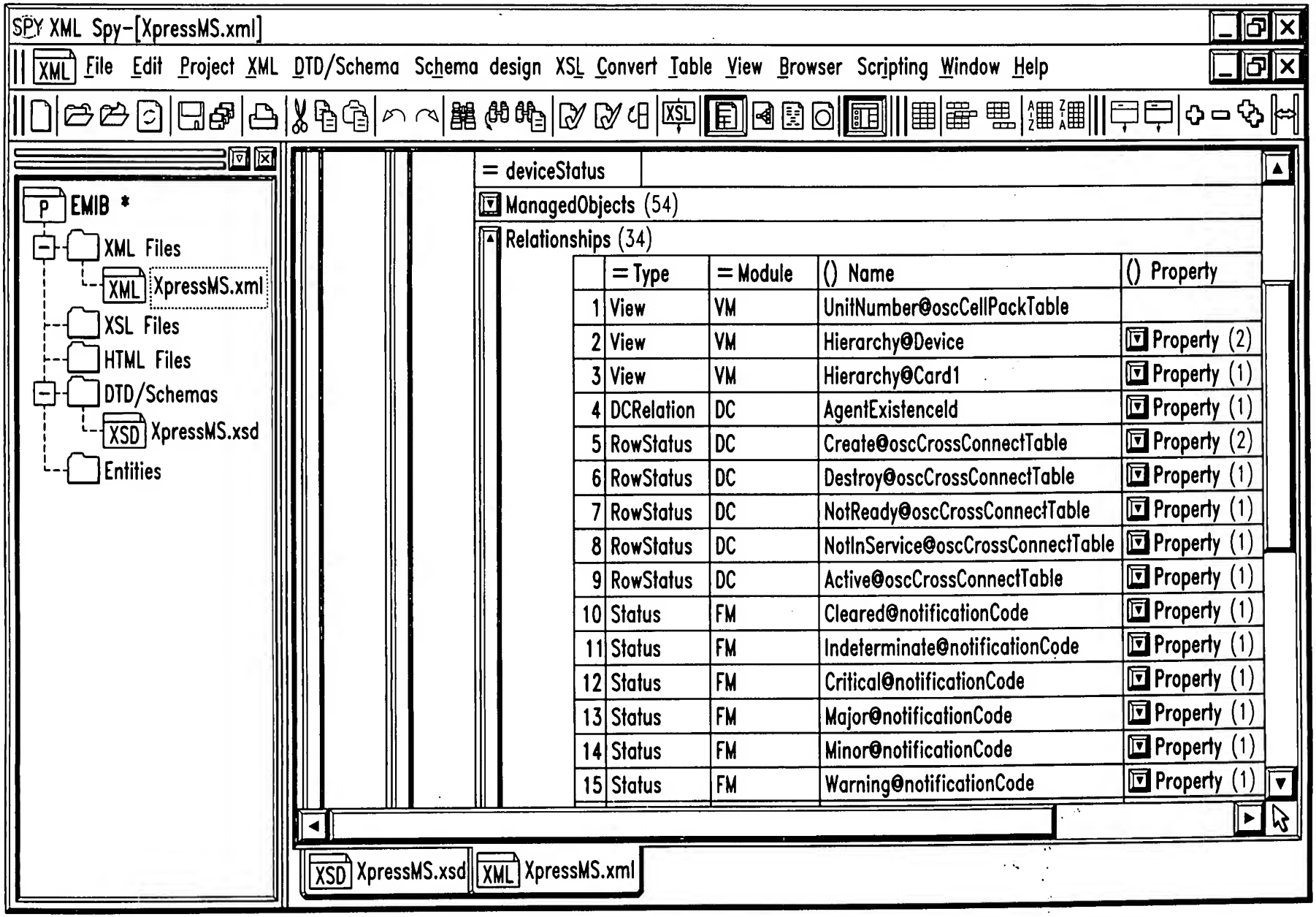

SPY XML Spy-[XpressMS.xml]
File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
= deviceStatus
ManagedObjects (54)
Relationships (34)
= Type
= Module
() Name
() Property
1 View VM UnitNumber@oscCellPackTable
2 View VM Hierarchy@Device Property (2)
3 View VM Hierarchy@Card1 Property (1)
4 DCRelation DC AgentExistenceId Property (1)
5 RowStatus DC Create@oscCrossConnectTable Property (2)
6 RowStatus DC Destroy@oscCrossConnectTable Property (1)
7 RowStatus DC NotReady@oscCrossConnectTable Property (1)
8 RowStatus DC NotInService@oscCrossConnectTable Property (1)
9 RowStatus DC Active@oscCrossConnectTable Property (1)
10 Status FM Cleared@notificationCode Property (1)
11 Status FM Indeterminate@notificationCode Property (1)
12 Status FM Critical@notificationCode Property (1)
13 Status FM Major@notificationCode Property (1)
14 Status FM Minor@notificationCode Property (1)
15 Status FM Warning@notificationCode Property (1)
XpressMS.xsd
XpressMS.xml

FIG. 16

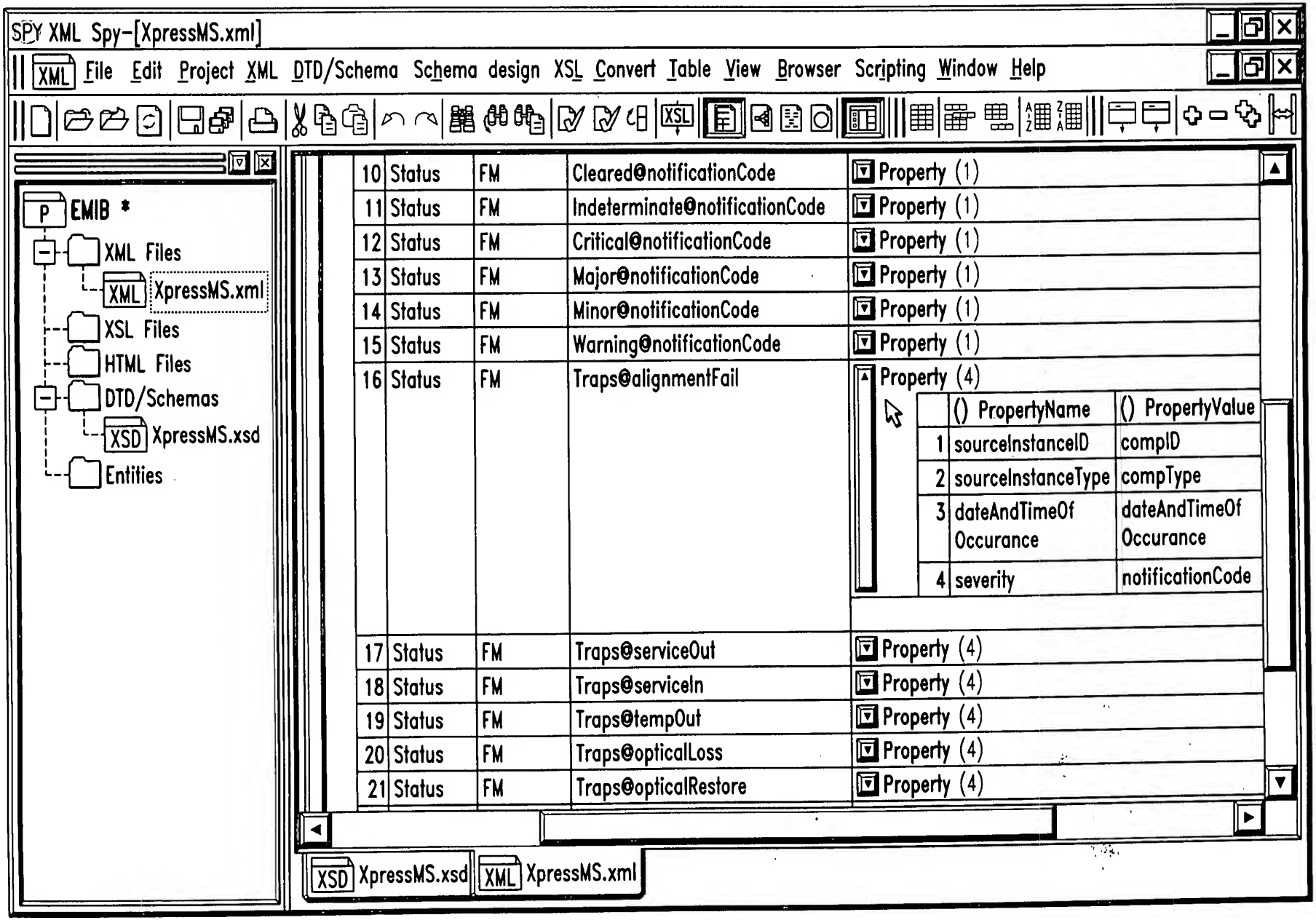

SPY XML Spy-[XpressMS.xml]
XML File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
10 Status FM Cleared@notificationCode Property (1)
11 Status FM Indeterminate@notificationCode Property (1)
12 Status FM Critical@notificationCode Property (1)
13 Status FM Major@notificationCode Property (1)
14 Status FM Minor@notificationCode Property (1)
15 Status FM Warning@notificationCode Property (1)
16 Status FM Traps@alignmentFail Property (4)
() PropertyName () PropertyValue
1 sourceInstanceID compID
2 sourceInstanceType compType
3 dateAndTimeOf Occurance dateAndTimeOf Occurance
4 severity notificationCode
17 Status FM Traps@serviceOut Property (4)
18 Status FM Traps@serviceIn Property (4)
19 Status FM Traps@tempOut Property (4)
20 Status FM Traps@opticalLoss Property (4)
21 Status FM Traps@opticalRestore Property (4)
XpressMS.xsd
XpressMS.xml

FIG. 17

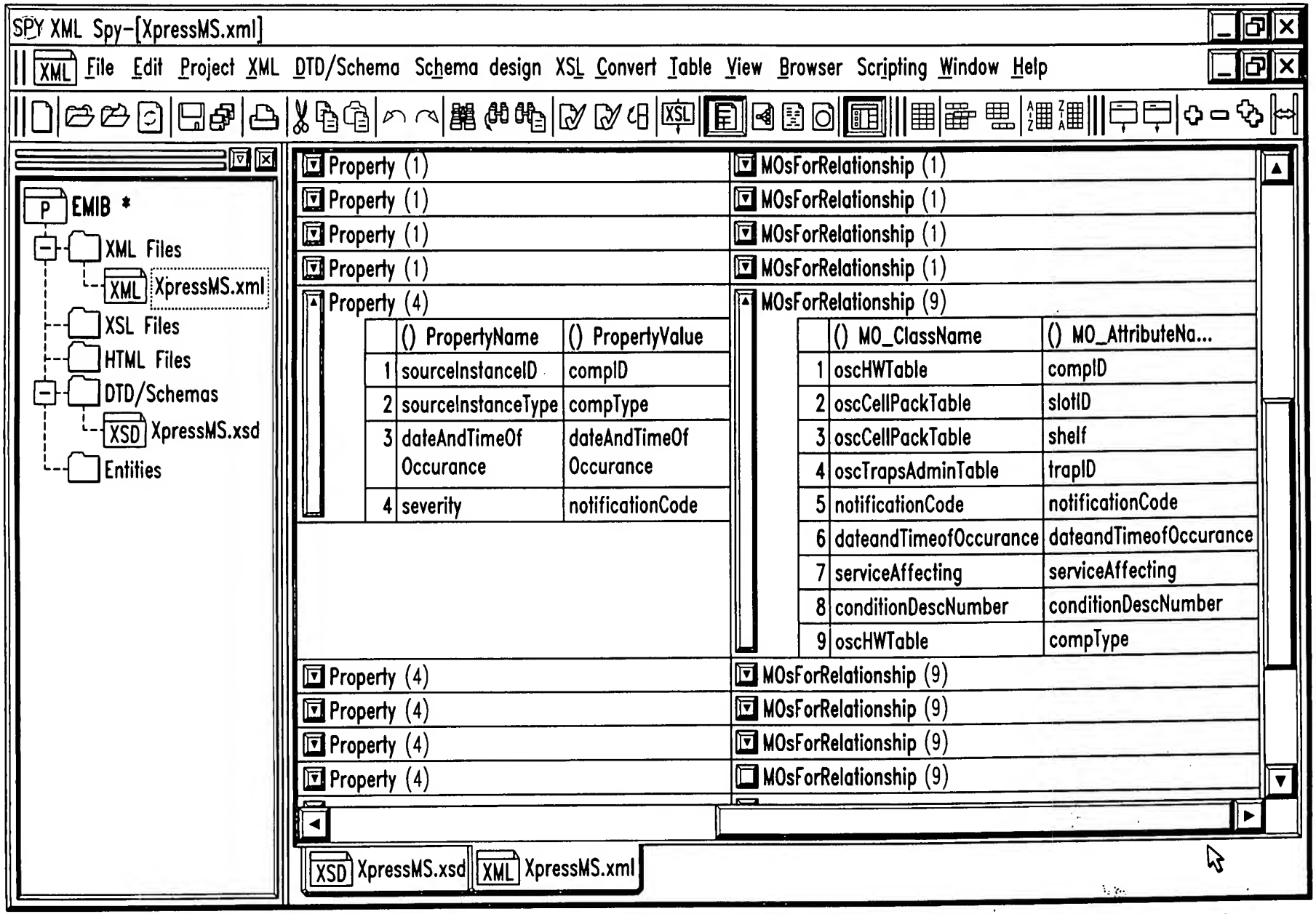

SPY XML Spy-[XpressMS.xml]
XML File Edit Project XML DTD/Schema Schema design XSL Convert Table View Browser Scripting Window Help
EMIB *
XML Files
XpressMS.xml
XSL Files
HTML Files
DTD/Schemas
XpressMS.xsd
Entities
Property (1)
Property (1)
Property (1)
Property (1)
Property (4)
() PropertyName
() PropertyValue
1 sourceInstanceID
compID
2 sourceInstanceType
compType
3 dateAndTimeOf Occurance
dateAndTimeOf Occurance
4 severity
notificationCode
Property (4)
Property (4)
Property (4)
Property (4)
MOsForRelationship (1)
MOsForRelationship (1)
MOsForRelationship (1)
MOsForRelationship (1)
MOsForRelationship (9)
() MO_ClassName
() MO_AttributeNa...
1 oscHWTable
compID
2 oscCellPackTable
slotID
3 oscCellPackTable
shelf
4 oscTrapsAdminTable
trapID
5 notificationCode
notificationCode
6 dateandTimeofOccurance
dateandTimeofOccurance
7 serviceAffecting
serviceAffecting
8 conditionDescNumber
conditionDescNumber
9 oscHWTable
compType
MOsForRelationship (9)
MOsForRelationship (9)
MOsForRelationship (9)
MOsForRelationship (9)
XpressMS.xsd
XpressMS.xml

FIG. 18

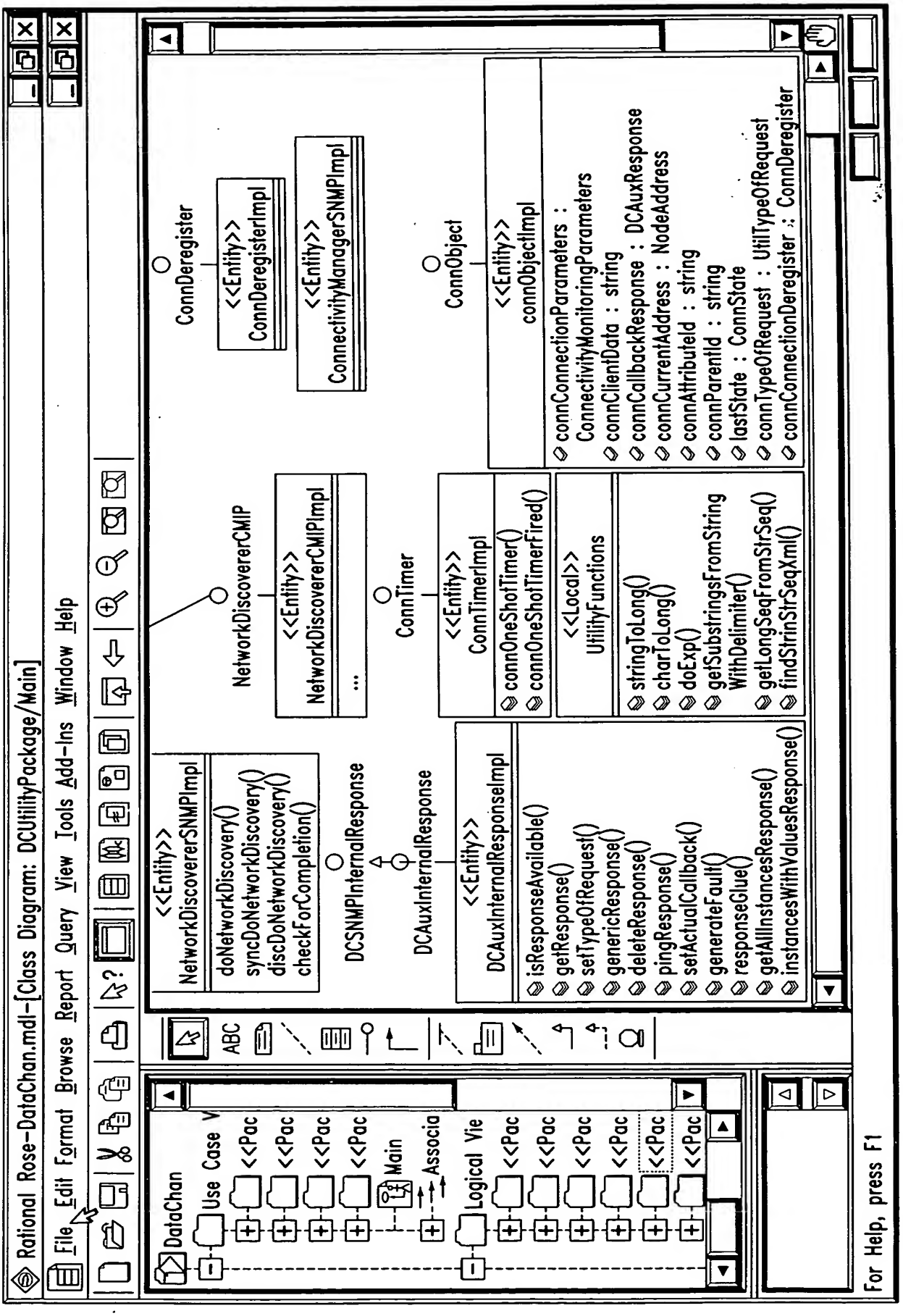

Rational Rose-DataChan.mdl-[Class Diagram: DCUtilityPackage/Main]
File Edit Format Browse Report Query View Tools Add-Ins Window Help
For Help, press F1
ConnDeregister
NetworkDiscovererCMIP
ConnTimer
DCSNMPInternalResponse
DCAuxInternalResponse
ConnObject
<<Entity>>
NetworkDiscovererSNMPImpl
doNetworkDiscovery()
syncDoNetworkDiscovery()
discDoNetworkDiscovery()
checkForCompletion()
<<Entity>>
ConnDeregisterImpl
<<Entity>>
ConnectivityManagerSNMPImpl
<<Entity>>
NetworkDiscovererCMIPImpl
...
<<Entity>>
ConnTimerImpl
connOneShotTimer()
connOneShotTimerFired()
<<Entity>>
connObjectImpl
connConnectionParameters : ConnectivityMonitoringParameters
connClientData : string
connCallbackResponse : DCAuxResponse
connCurrentAddress : NodeAddress
connAttributeId : string
connParentId : string
lastState : ConnState
connTypeOfRequest : UtilTypeOfRequest
connConnectionDeregister : ConnDeregister
<<Entity>>
DCAuxInternalResponseImpl
isResponseAvailable()
getResponse()
setTypeOfRequest()
genericResponse()
deleteResponse()
pingResponse()
setActualCallback()
generateFault()
responseGlue()
getAllInstancesResponse()
instancesWithValuesResponse()
<<Local>>
UtilityFunctions
stringToLong()
charToLong()
doExp()
getSubstringsFromString WithDelimiter()
getLongSeqFromStrSeq()
findStrinStrSeqXml()
DataChan
Use Case V
Main
Associa
Logical Vie

FIG. 19

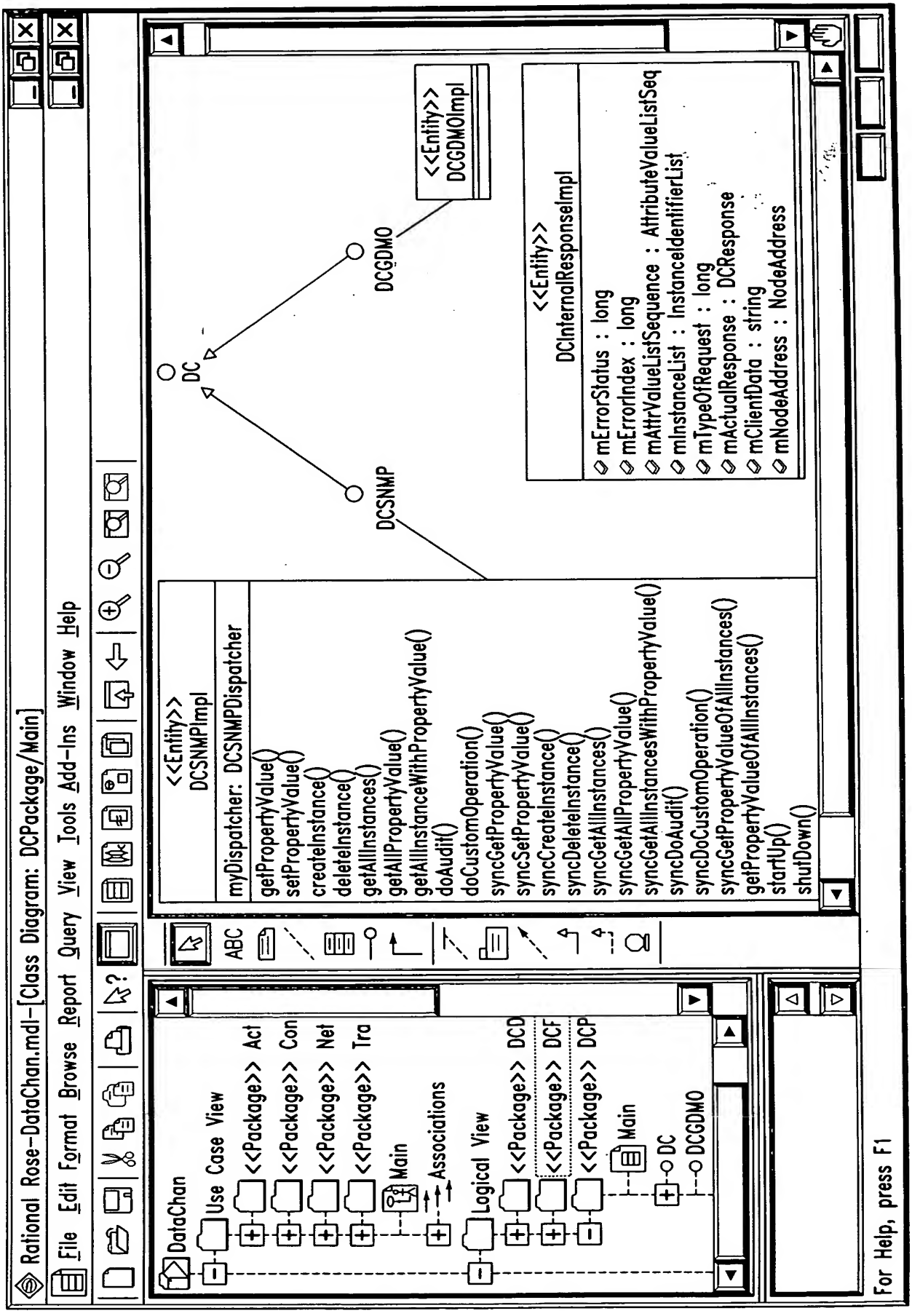

Rational Rose-DataChan.mdl-[Class Diagram: DCPackage/Main]
File Edit Format Browse Report Query View Tools Add-Ins Window Help
DataChan
Use Case View
<<Package>> Act
<<Package>> Con
<<Package>> Net
<<Package>> Tra
Main
Associations
Logical View
<<Package>> DCD
<<Package>> DCF
<<Package>> DCP
Main
DC
DCGDMO
ABC
<<Entity>>
DCSNMPImpl
myDispatcher: DCSNMPDispatcher
getPropertyValue()
setPropertyValue()
createInstance()
deleteInstance()
getAllInstances()
getAllPropertyValue()
getAllInstanceWithPropertyValue()
doAudit()
doCustomOperation()
syncGetPropertyValue()
syncSetPropertyValue()
syncCreateInstance()
syncDeleteInstance()
syncGetAllInstances()
syncGetAllPropertyValue()
syncGetAllInstancesWithPropertyValue()
syncDoAudit()
syncDoCustomOperation()
syncGetPropertyValueOfAllInstances()
getPropertyValueOfAllInstances()
startUp()
shutDown()
DC
DCGDMO
DCSNMP
<<Entity>>
DCGDMOImpl
<<Entity>>
DCInternalResponseImpl
mErrorStatus : long
mErrorIndex : long
mAttrValueListSequence : AttributeValueListSeq
mInstanceList : InstanceIdentifierList
mTypeOfRequest : long
mActualResponse : DCResponse
mClientData : string
mNodeAddress : NodeAddress
For Help, press F1

FIG. 21

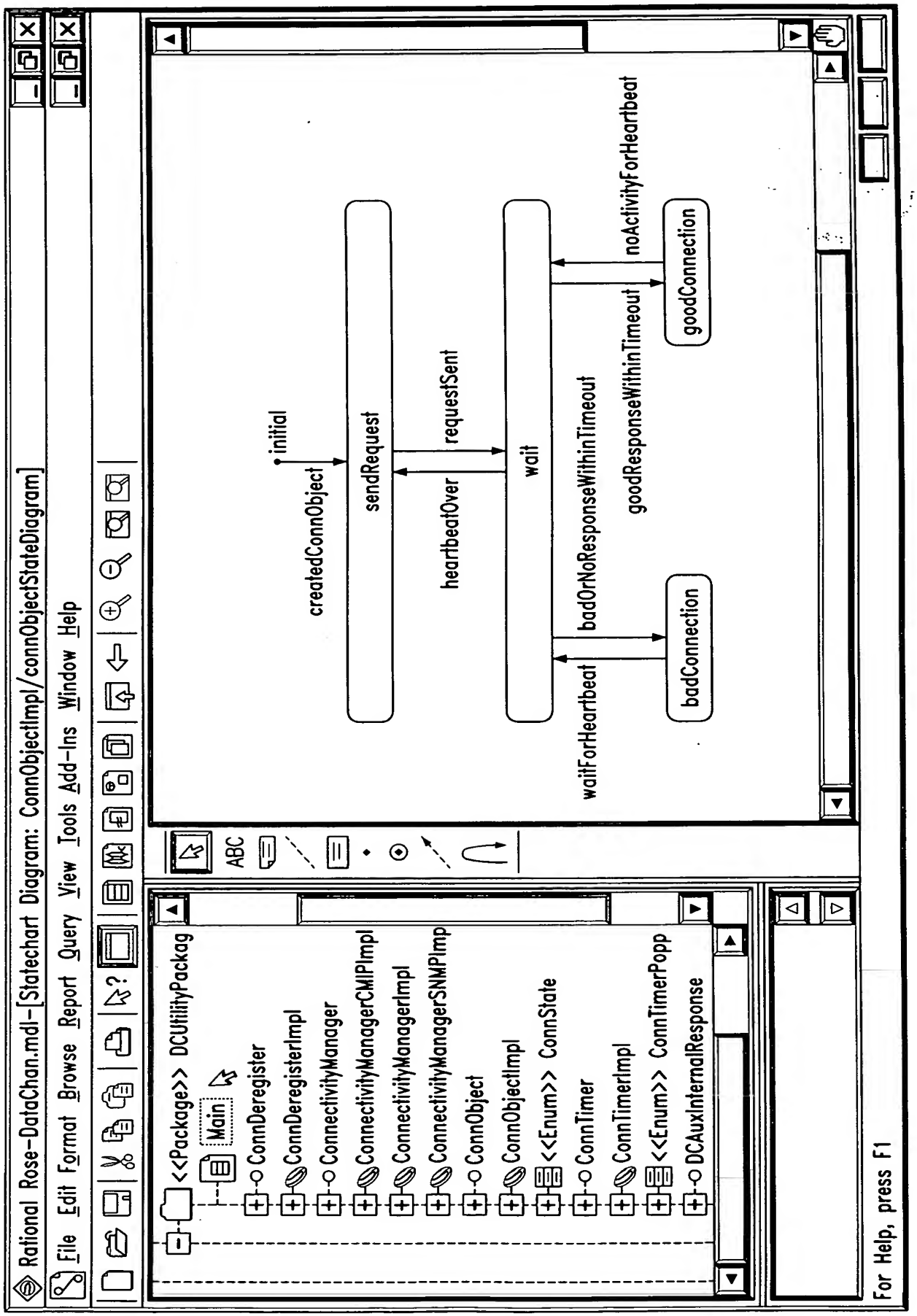

Rational Rose-DataChan.mdl-[Statechart Diagram: ConnObjectImpl/connObjectStateDiagram]
File Edit Format Browse Report Query View Tools Add-Ins Window Help
<<Package>> DCUtilityPackag
Main
ConnDeregister
ConnDeregisterImpl
ConnectivityManager
ConnectivityManagerCMIPImpl
ConnectivityManagerImpl
ConnectivityManagerSNMPImp
ConnObject
ConnObjectImpl
<<Enum>> ConnState
ConnTimer
ConnTimerImpl
<<Enum>> ConnTimerPopp
DCAuxInternalResponse
initial
createdConnObject
sendRequest
requestSent
heartbeatOver
wait
badOrNoResponseWithinTimeout
goodResponseWithinTimeout
noActivityForHeartbeat
goodConnection
waitForHeartbeat
badConnection
For Help, press F1

FIG. 22

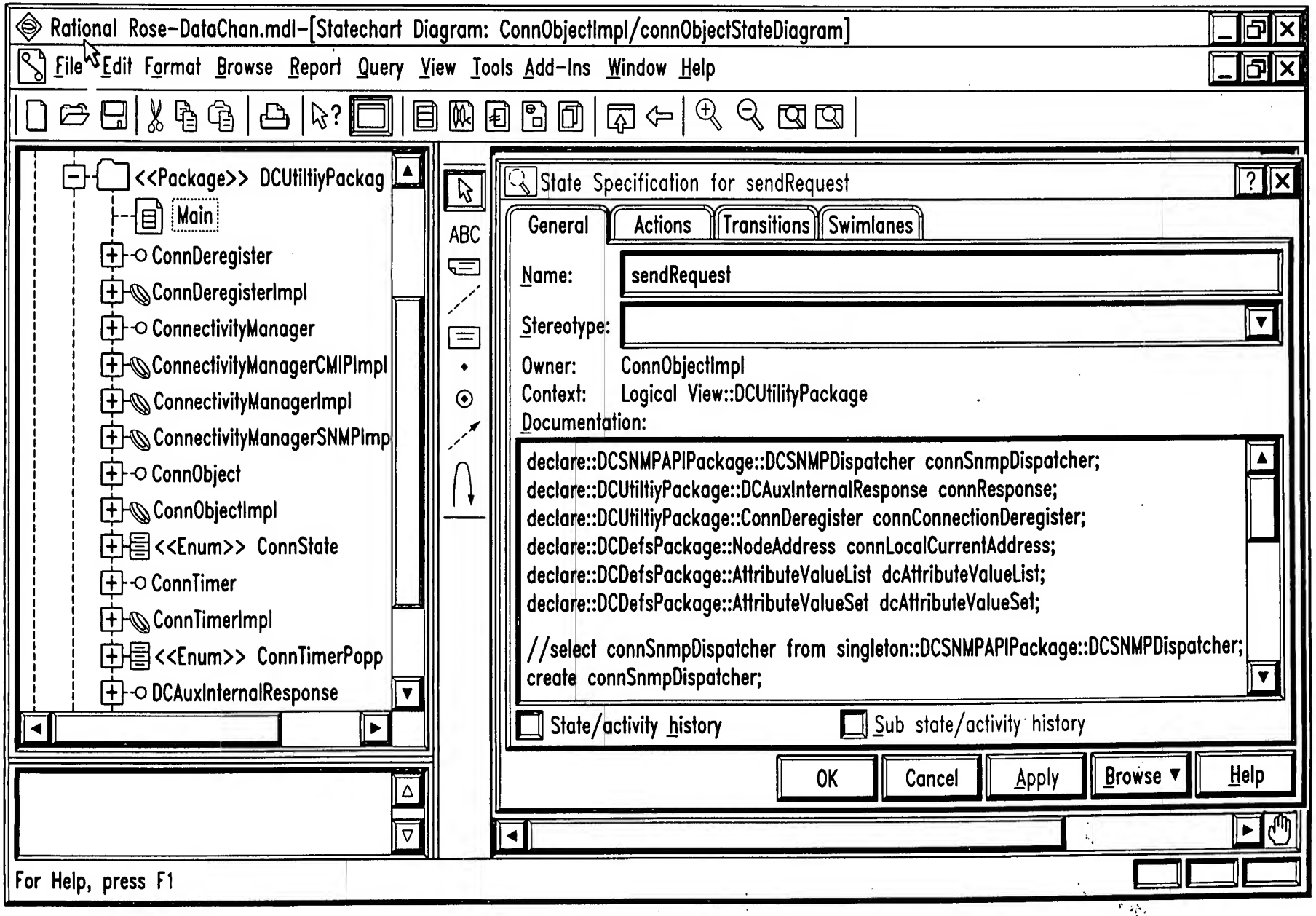
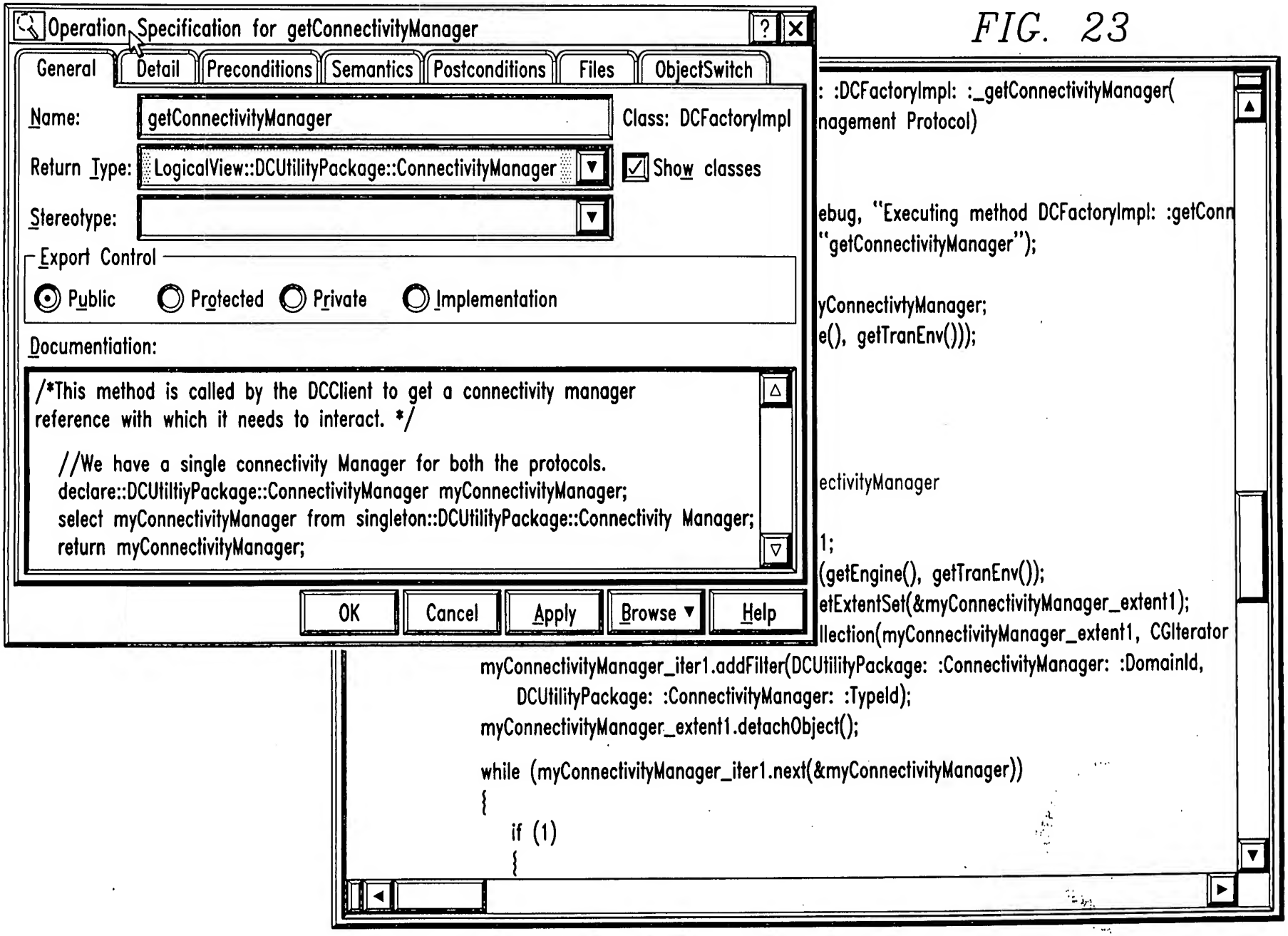

Rational Rose-DataChan.mdl-[Statechart Diagram: ConnObjectImpl/connObjectStateDiagram]
File Edit Format Browse Report Query View Tools Add-Ins Window Help
<<Package>> DCUtiltiyPackag
Main
ConnDeregister
ConnDeregisterImpl
ConnectivityManager
ConnectivityManagerCMIPImpl
ConnectivityManagerImpl
ConnectivityManagerSNMPImp
ConnObject
ConnObjectImpl
<<Enum>> ConnState
ConnTimer
ConnTimerImpl
<<Enum>> ConnTimerPopp
DCAuxInternalResponse
ABC
State Specification for sendRequest
General
Actions
Transitions
Swimlanes
Name: sendRequest
Stereotype:
Owner: ConnObjectImpl
Context: Logical View::DCUtilityPackage
Documentation:
declare::DCSNMPAPIPackage::DCSNMPDispatcher connSnmpDispatcher;
declare::DCUtiltiyPackage::DCAuxInternalResponse connResponse;
declare::DCUtiltiyPackage::ConnDeregister connConnectionDeregister;
declare::DCDefsPackage::NodeAddress connLocalCurrentAddress;
declare::DCDefsPackage::AttributeValueList dcAttributeValueList;
declare::DCDefsPackage::AttributeValueSet dcAttributeValueSet;
//select connSnmpDispatcher from singleton::DCSNMPAPIPackage::DCSNMPDispatcher;
create connSnmpDispatcher;
State/activity history
Sub state/activity history
OK
Cancel
Apply
Browse
Help
For Help, press F1

FIG. 23


Operation Specification for getConnectivityManager
General
Detail
Preconditions
Semantics
Postconditions
Files
ObjectSwitch
Name:
getConnectivityManager
Class: DCFactoryImpl
Return Type:
LogicalView::DCUtilityPackage::ConnectivityManager
Show classes
Stereotype:
Export Control
Public
Protected
Private
Implementation
Documentation:
/*This method is called by the DCClient to get a connectivity manager reference with which it needs to interact. */
//We have a single connectivity Manager for both the protocols.
declare::DCUtiltiyPackage::ConnectivityManager myConnectivityManager;
select myConnectivityManager from singleton::DCUtilityPackage::Connectivity Manager;
return myConnectivityManager;
OK
Cancel
Apply
Browse
Help
: :DCFactoryImpl: :_getConnectivityManager(
nagement Protocol)
ebug, "Executing method DCFactoryImpl: :getConn
"getConnectivityManager");
yConnectivtyManager;
e(), getTranEnv()));
ectivityManager
1;
(getEngine(), getTranEnv());
etExtentSet(&myConnectivityManager_extent1);
llection(myConnectivityManager_extent1, CGIterator
myConnectivityManager_iter1.addFilter(DCUtilityPackage: :ConnectivityManager: :DomainId,
DCUtilityPackage: :ConnectivityManager: :TypeId);
myConnectivityManager_extent1.detachObject();
while (myConnectivityManager_iter1.next(&myConnectivityManager))
{
if (1)
{

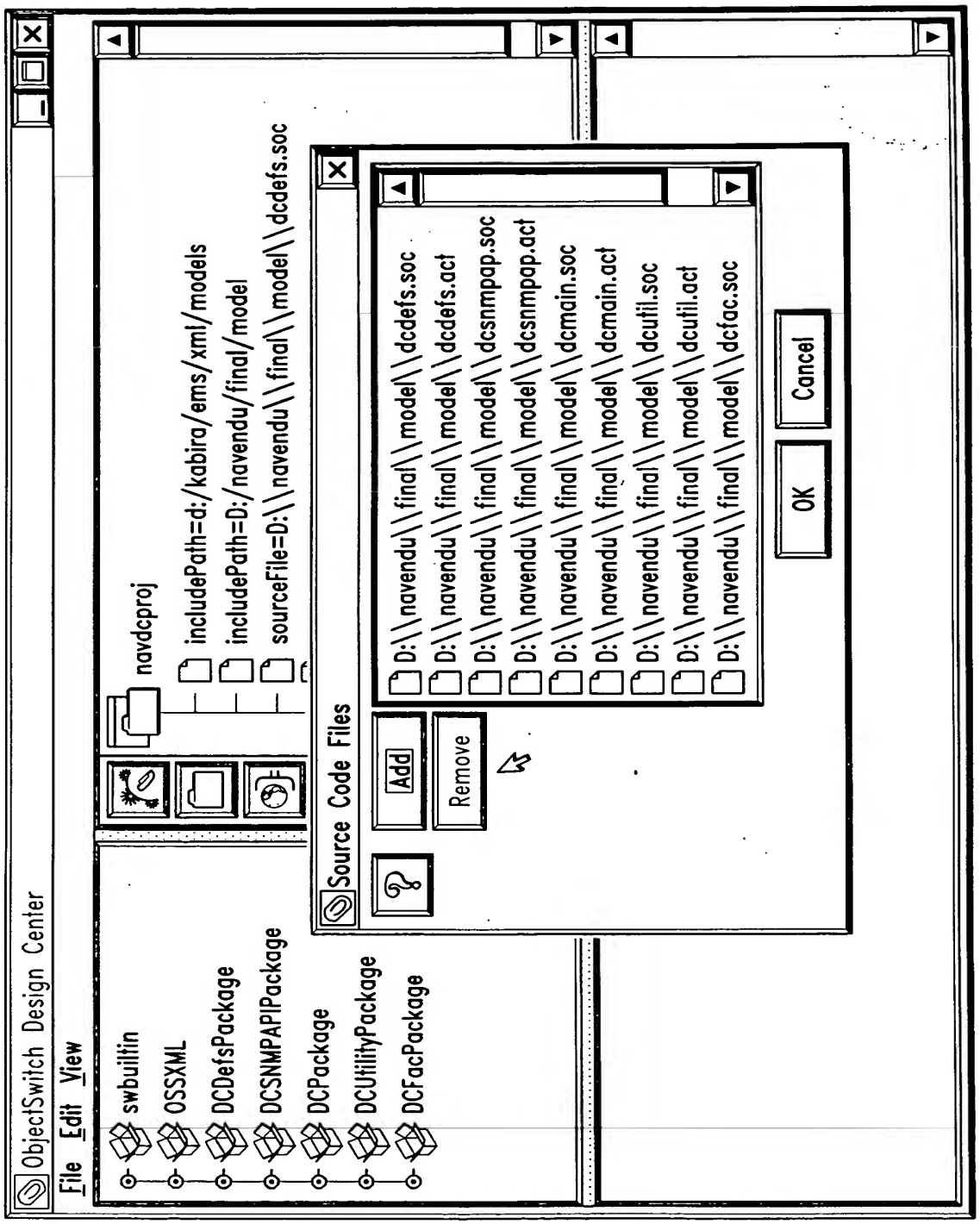

ObjectSwitch Design Center
File Edit View
swbuilfin
OSSXML
DCDefsPackage
DCSNMPAPIPackage
DCPackage
DCUtilityPackage
DCFacPackage
navdcproj
includePath=d:/kabira/ems/xml/models
includePath=D:/navendu/final/model
sourceFile=D:\\navendu\\final\\model\\dcdefs.soc
Source Code Files
Add
Remove
D:\\navendu\\final\\model\\dcdefs.soc
D:\\navendu\\final\\model\\dcdefs.act
D:\\navendu\\final\\model\\dcsnmpap.soc
D:\\navendu\\final\\model\\dcsnmpap.act
D:\\navendu\\final\\model\\dcmain.soc
D:\\navendu\\final\\model\\dcmain.act
D:\\navendu\\final\\model\\dcutil.soc
D:\\navendu\\final\\model\\dcutil.act
D:\\navendu\\final\\model\\dcfac.soc
OK
Cancel

FIG. 24

FIG. 25

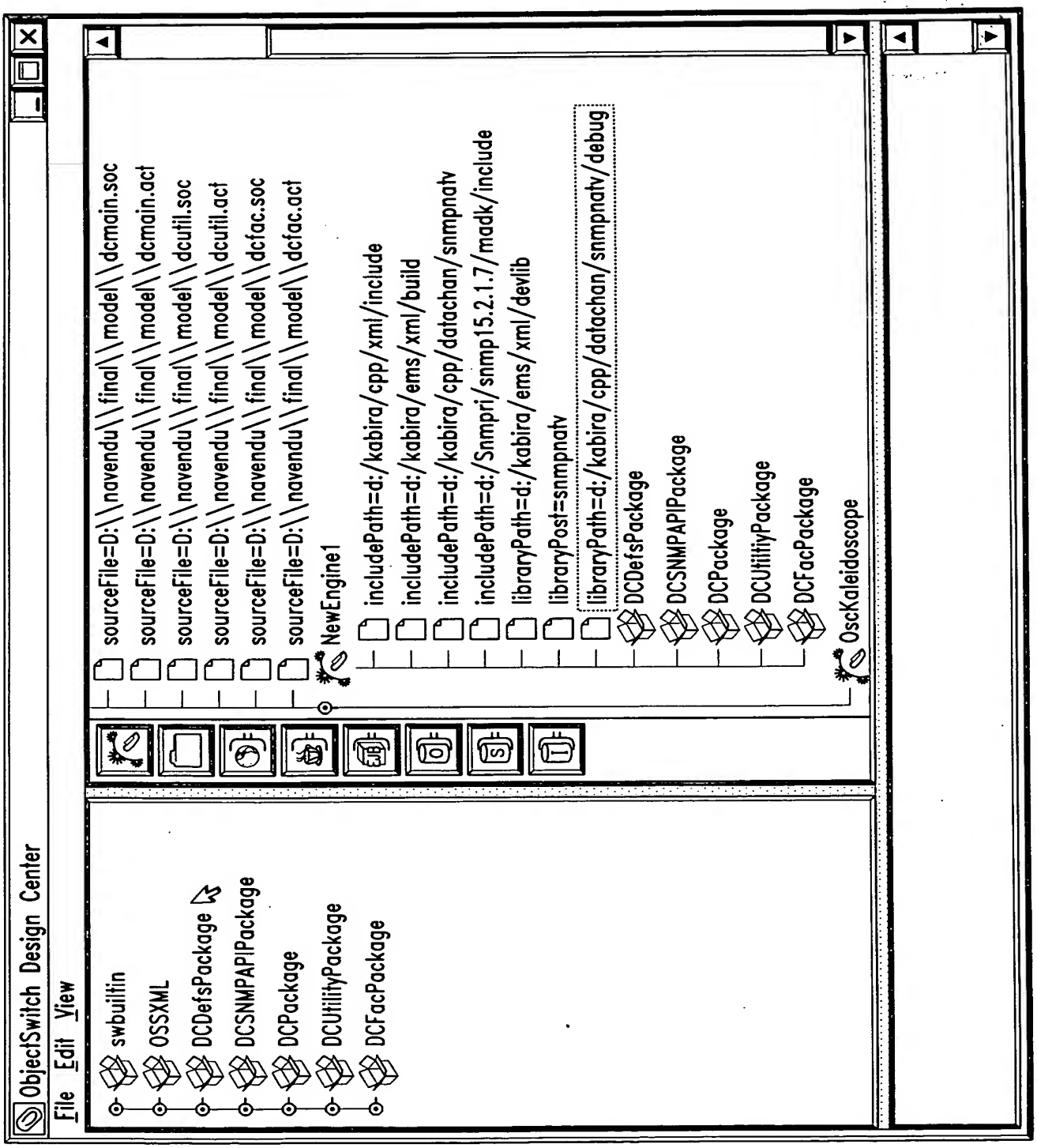
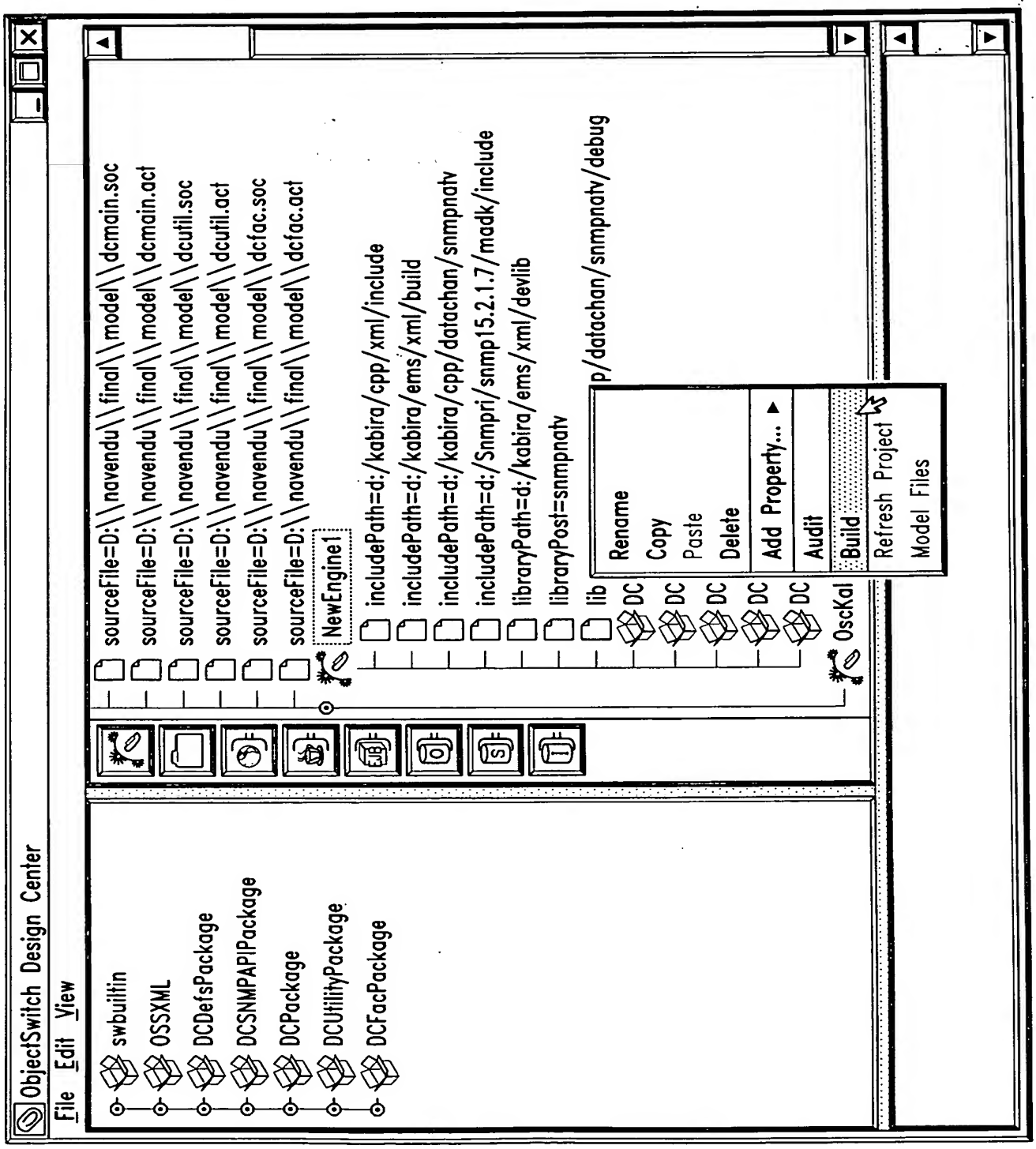

ObjectSwitch Design Center
File Edit View
swbuiltin
OSSXML
DCDefsPackage
DCSNMPAPIPackage
DCPackage
DCUtilityPackage
DCFacPackage
sourceFile=D:\\navendu\\final\\model\\dcmain.soc
sourceFile=D:\\navendu\\final\\model\\dcmain.act
sourceFile=D:\\navendu\\final\\model\\dcutil.soc
sourceFile=D:\\navendu\\final\\model\\dcutil.act
sourceFile=D:\\navendu\\final\\model\\dcfac.soc
sourceFile=D:\\navendu\\final\\model\\dcfac.act
NewEngine1
includePath=d:/kabira/cpp/xml/include
includePath=d:/kabira/ems/xml/build
includePath=d:/kabira/cpp/datachan/snmpnatv
includePath=d:/Snmpri/snmp15.2.1.7/madk/include
libraryPath=d:/kabira/ems/xml/devlib
libraryPost=snmpnatv
libraryPath=d:/kabira/cpp/datachan/snmpnatv/debug
DCDefsPackage
DCSNMPAPIPackage
DCPackage
DCUtilityPackage
DCFacPackage
OscKaleidoscope

FIG. 26


ObjectSwitch Design Center
File Edit View
swbuiltin
OSSXML
DCDefsPackage
DCSNMPAPIPackage
DCPackage
DCUtilityPackage
DCFacPackage
sourceFile=D:\\navendu\\final\\model\\dcmain.soc
sourceFile=D:\\navendu\\final\\model\\dcmain.act
sourceFile=D:\\navendu\\final\\model\\dcutil.soc
sourceFile=D:\\navendu\\final\\model\\dcutil.act
sourceFile=D:\\navendu\\final\\model\\dcfac.soc
sourceFile=D:\\navendu\\final\\model\\dcfac.act
NewEngine1
includePath=d:/kabira/cpp/xml/include
includePath=d:/kabira/ems/xml/build
includePath=d:/kabira/cpp/datachan/snmpnatv
includePath=d:/Snmpri/snmp15.2.1.7/madk/include
libraryPath=d:/kabira/ems/xml/devlib
libraryPost=snmpnatv
lib
DC
DC
DC
DC
DC
OscKal
p/datachan/snmpnatv/debug
Rename
Copy
Paste
Delete
Add Property...
Audit
Build
Refresh Project
Model Files

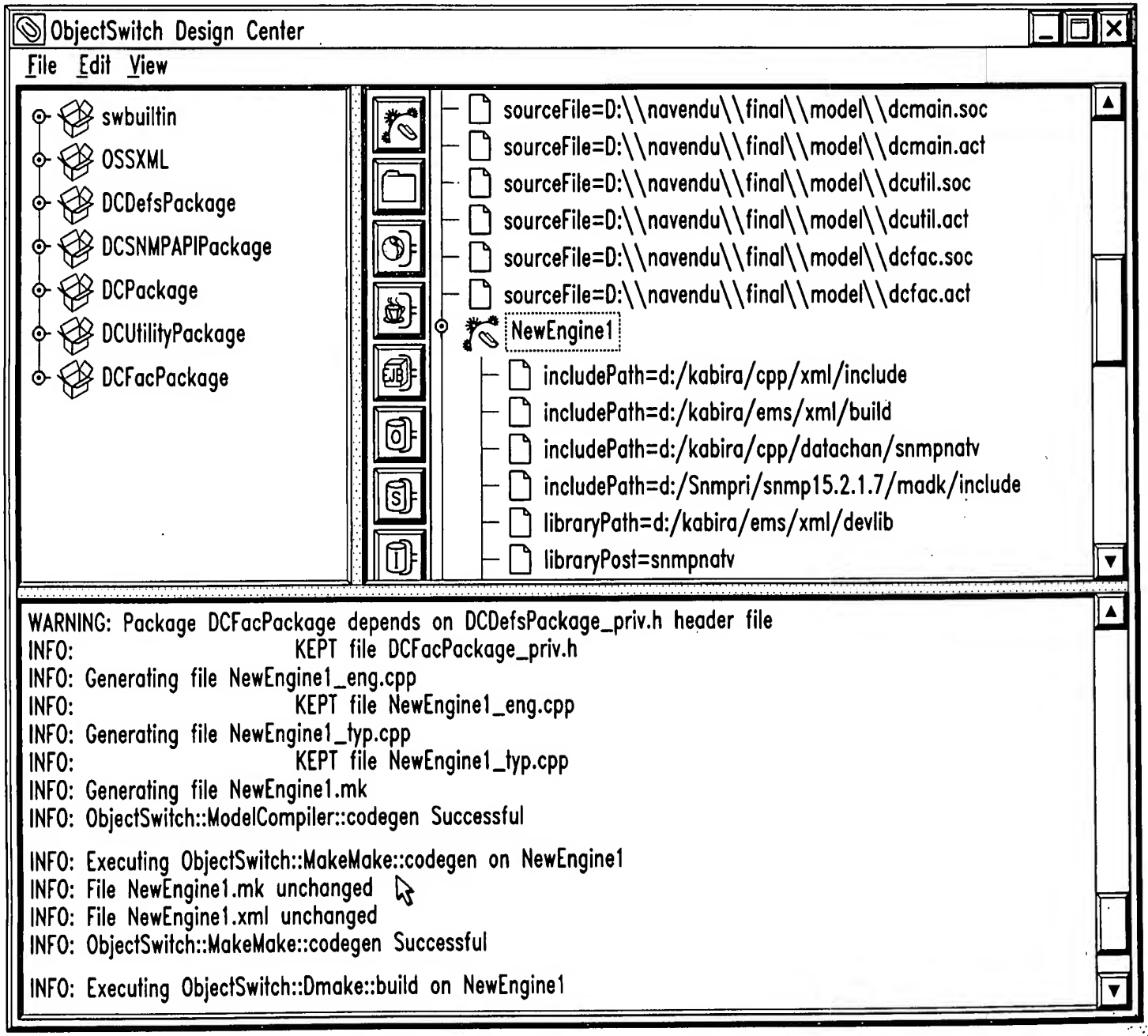

ObjectSwitch Design Center
File Edit View
swbuiltin
OSSXML
DCDefsPackage
DCSNMPAPIPackage
DCPackage
DCUtilityPackage
DCFacPackage
sourceFile=D:\\navendu\\final\\model\\dcmain.soc
sourceFile=D:\\navendu\\final\\model\\dcmain.act
sourceFile=D:\\navendu\\final\\model\\dcutil.soc
sourceFile=D:\\navendu\\final\\model\\dcutil.act
sourceFile=D:\\navendu\\final\\model\\dcfac.soc
sourceFile=D:\\navendu\\final\\model\\dcfac.act
NewEngine1
includePath=d:/kabira/cpp/xml/include
includePath=d:/kabira/ems/xml/build
includePath=d:/kabira/cpp/datachan/snmpnatv
includePath=d:/Snmpri/snmp15.2.1.7/madk/include
libraryPath=d:/kabira/ems/xml/devlib
libraryPost=snmpnatv
WARNING: Package DCFacPackage depends on DCDefsPackage_priv.h header file
INFO: KEPT file DCFacPackage_priv.h
INFO: Generating file NewEngine1_eng.cpp
INFO: KEPT file NewEngine1_eng.cpp
INFO: Generating file NewEngine1_typ.cpp
INFO: KEPT file NewEngine1_typ.cpp
INFO: Generating file NewEngine1.mk
INFO: ObjectSwitch::ModelCompiler::codegen Successful
INFO: Executing ObjectSwitch::MakeMake::codegen on NewEngine1
INFO: File NewEngine1.mk unchanged
INFO: File NewEngine1.xml unchanged
INFO: ObjectSwitch::MakeMake::codegen Successful
INFO: Executing ObjectSwitch::Dmake::build on NewEngine1

FIG. 27

FIG. 28

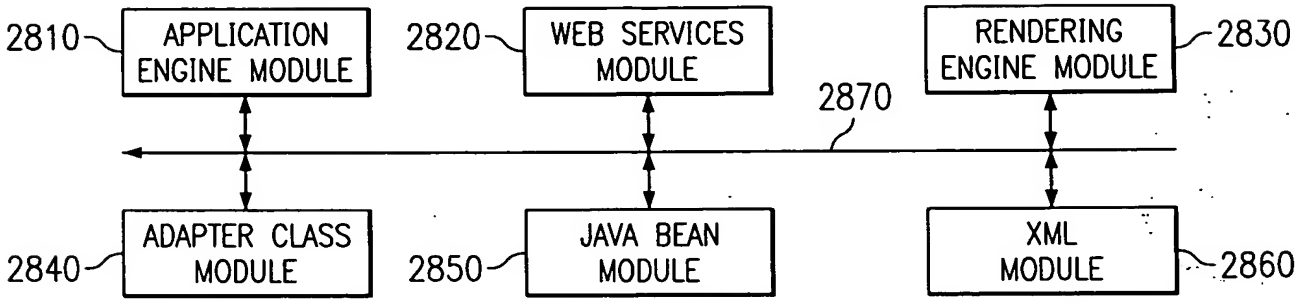


FIG. 29

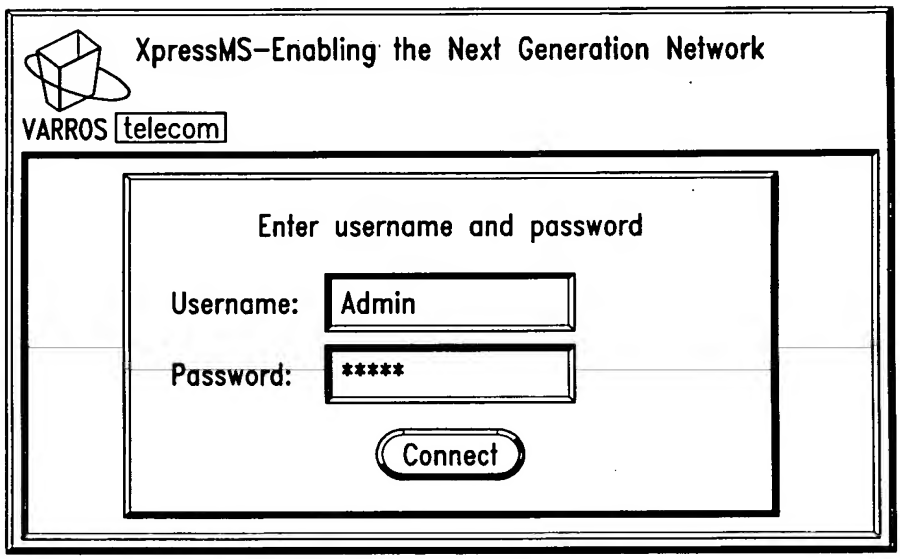
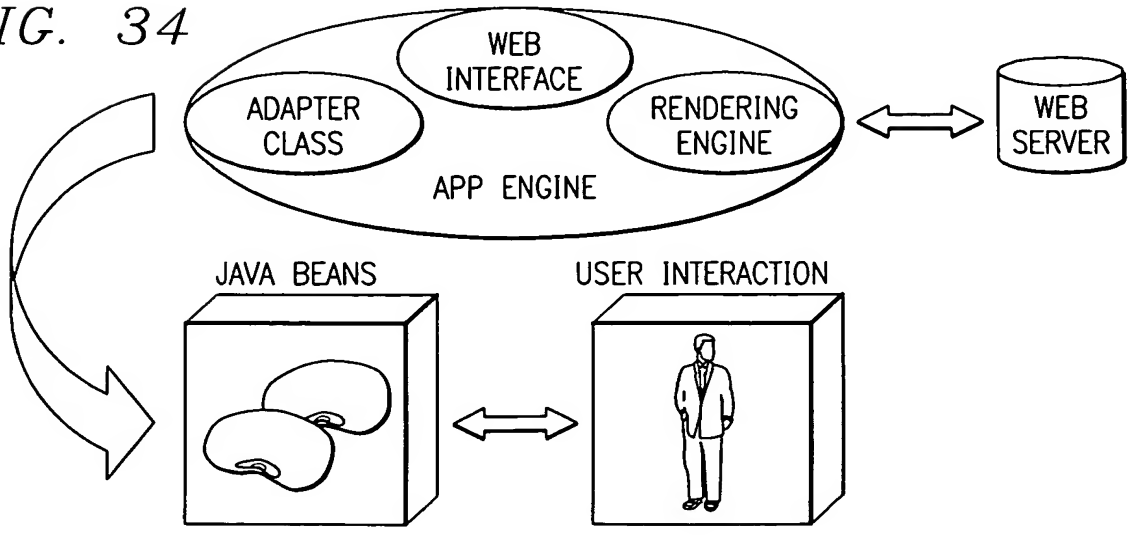
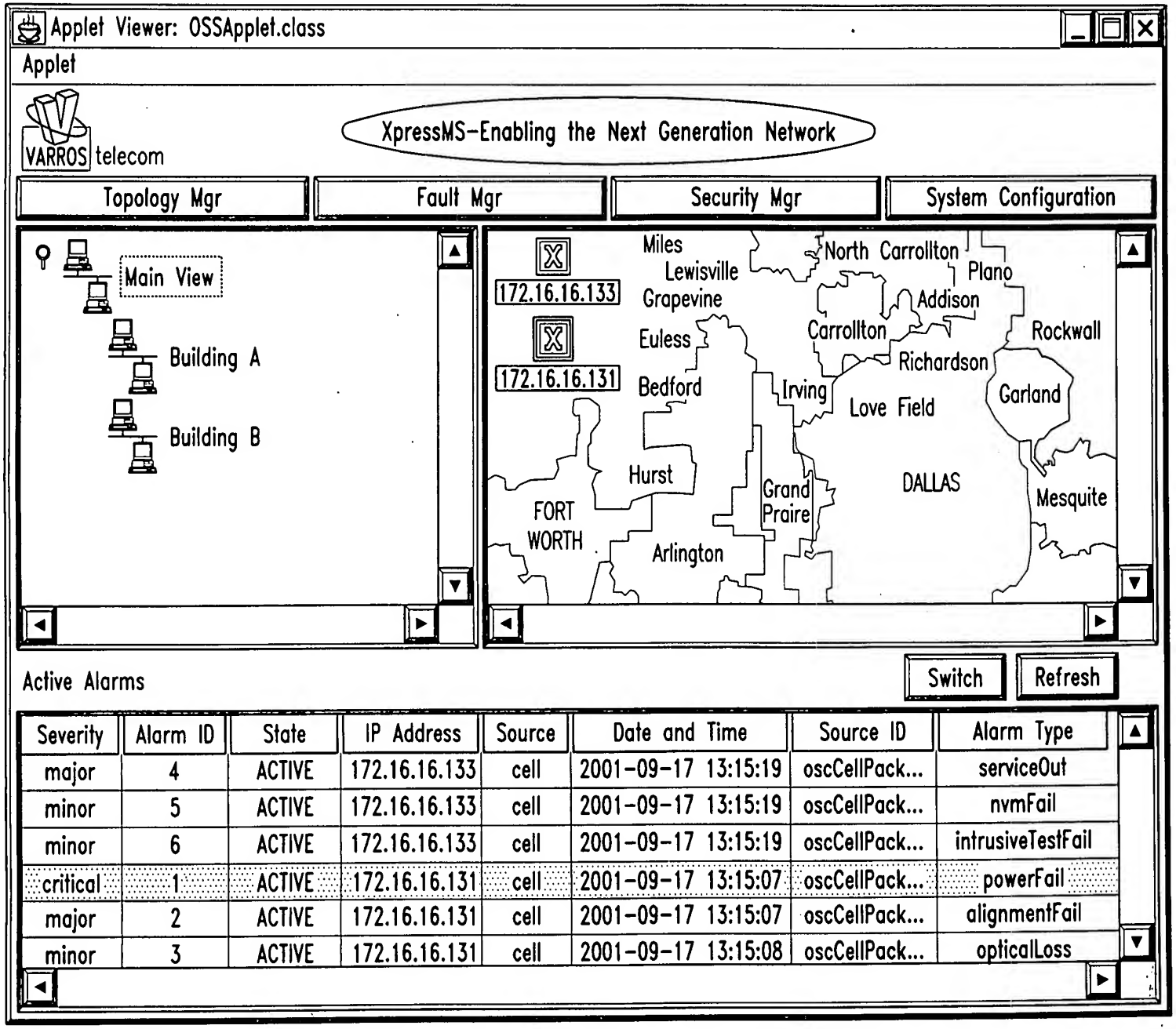


FIG. 34





Severity	Alarm ID	State	IP Address	Source	Date and Time	Source ID	Alarm Type
major	4	ACTIVE	172.16.16.133	cell	2001-09-17 13:15:19	oscCellPack...	serviceOut
minor	5	ACTIVE	172.16.16.133	cell	2001-09-17 13:15:19	oscCellPack...	nvmFail
minor	6	ACTIVE	172.16.16.133	cell	2001-09-17 13:15:19	oscCellPack...	intrusiveTestFail
critical	1	ACTIVE	172.16.16.131	cell	2001-09-17 13:15:07	oscCellPack...	powerFail
major	2	ACTIVE	172.16.16.131	cell	2001-09-17 13:15:07	oscCellPack...	alignmentFail
minor	3	ACTIVE	172.16.16.131	cell	2001-09-17 13:15:08	oscCellPack...	opticalLoss

FIG. 30

FIG. 31

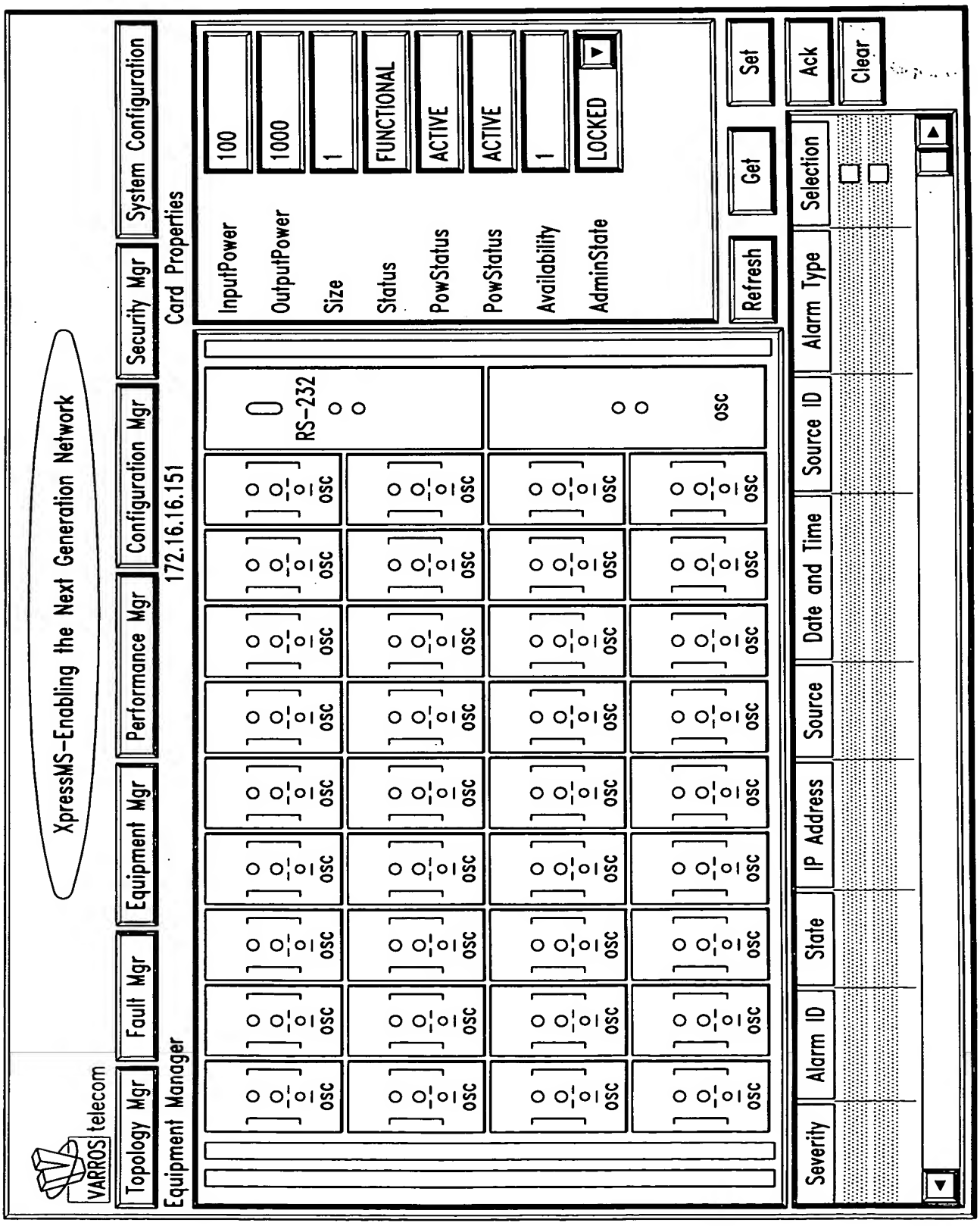
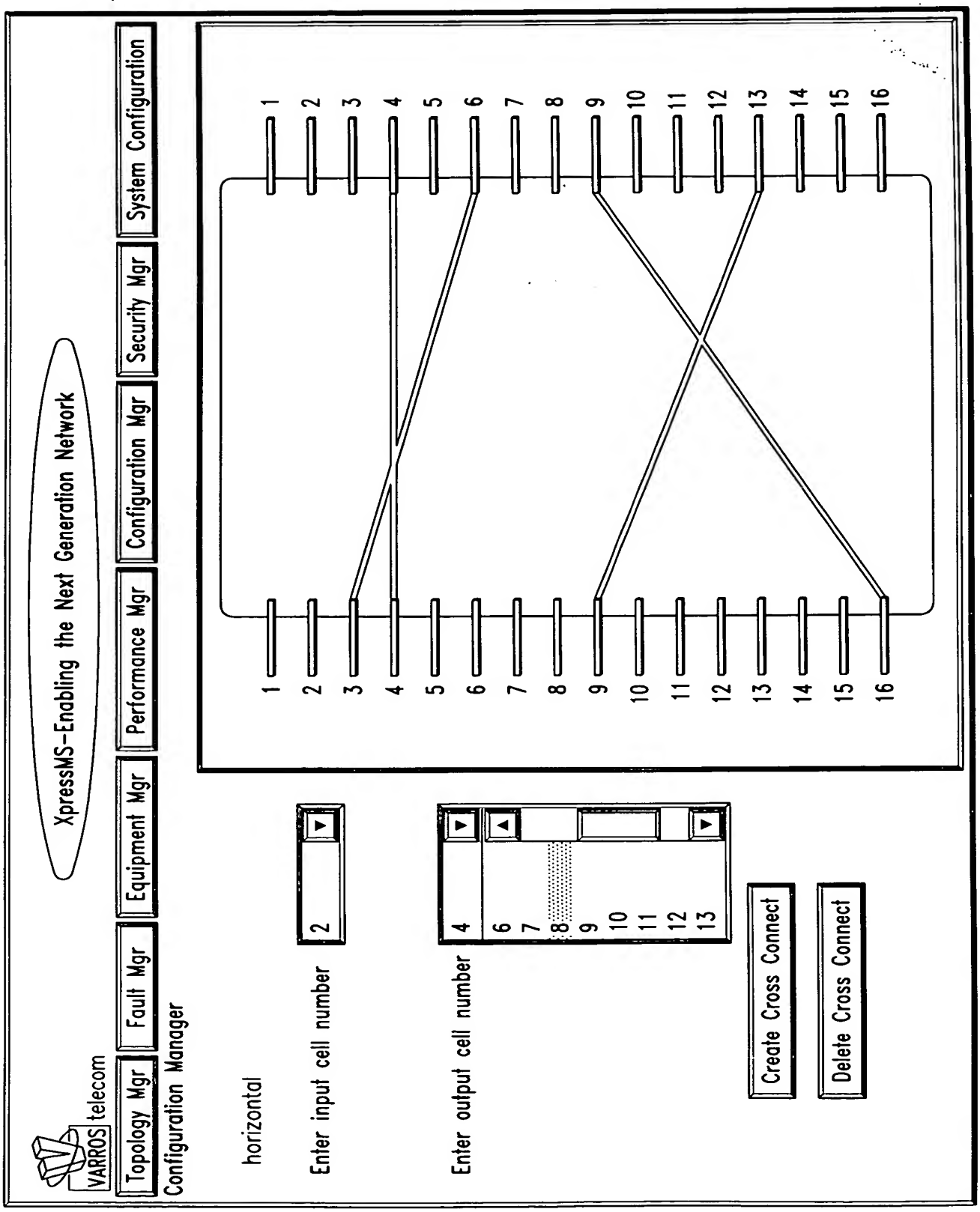

XpressMS-Enabling the Next Generation Network
VARROS telecom
Topology Mgr
Fault Mgr
Equipment Mgr
Performance Mgr
Configuration Mgr
Security Mgr
System Configuration
Equipment Manager
172.16.16.151
Card Properties
InputPower 100
OutputPower 1000
Size 1
Status FUNCTIONAL
PowStatus ACTIVE
PowStatus ACTIVE
Availability 1
AdminState LOCKED
Refresh
Get
Set
Ack
Clear
RS-232
osc
Severity
Alarm ID
State
IP Address
Source
Date and Time
Source ID
Alarm Type
Selection

FIG. 32


VARROS telecom
Topology Mgr
Fault Mgr
Equipment Mgr
Performance Mgr
Configuration Mgr
Security Mgr
System Configuration
XpressMS-Enabling the Next Generation Network
Configuration Manager
horizontal
Enter input cell number
2
Enter output cell number
4
6
7
8
9
10
11
12
13
Create Cross Connect
Delete Cross Connect
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

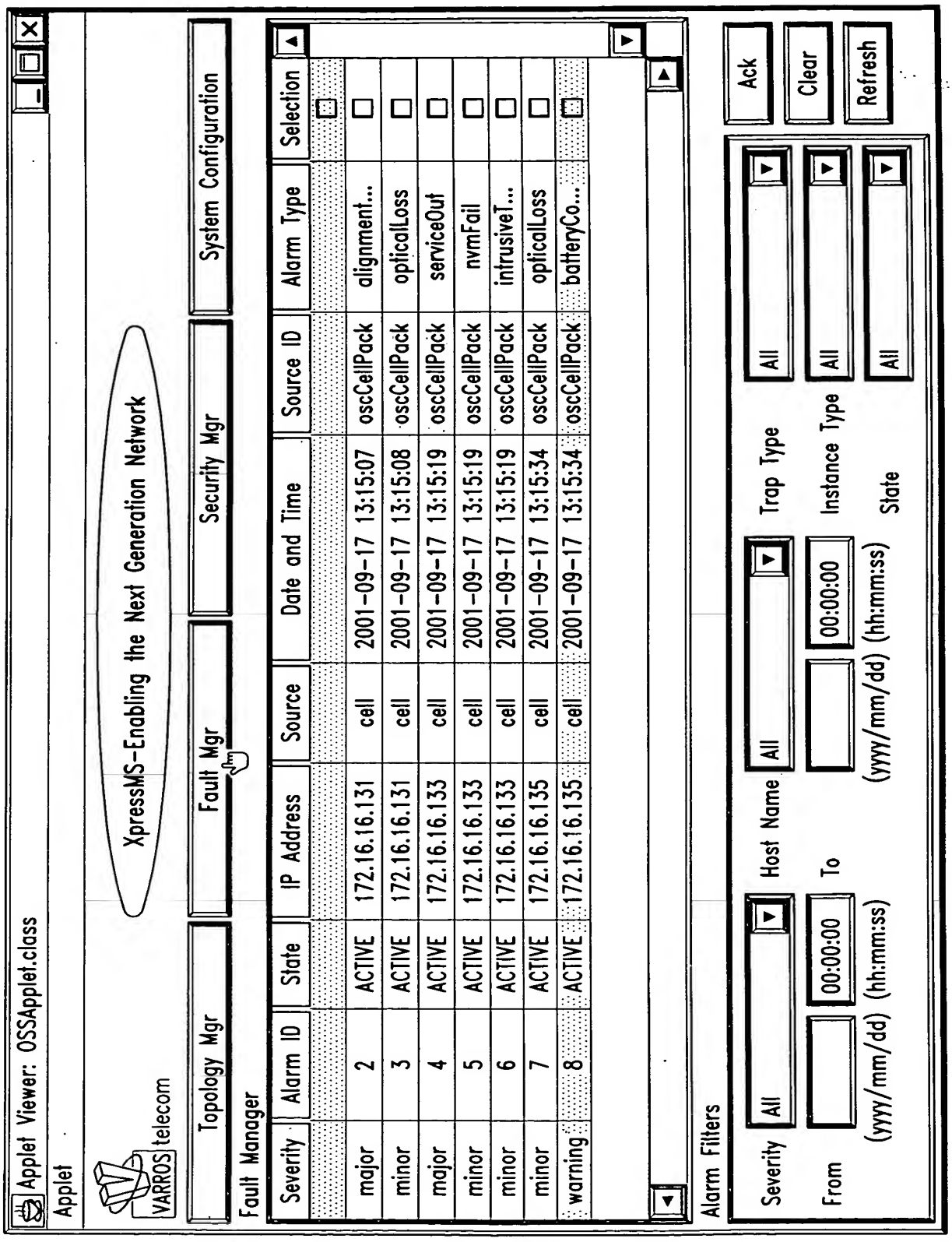

Applet Viewer: OSSApplet.class
Applet
VARROS telecom
XpressMS-Enabling the Next Generation Network
Topology Mgr
Fault Mgr
Security Mgr
System Configuration
Fault Manager
Severity
Alarm ID
State
IP Address
Source
Date and Time
Source ID
Alarm Type
Selection
major 2 ACTIVE 172.16.16.131 cell 2001-09-17 13:15:07 oscCellPack alignment...
minor 3 ACTIVE 172.16.16.131 cell 2001-09-17 13:15:08 oscCellPack opticalLoss
major 4 ACTIVE 172.16.16.133 cell 2001-09-17 13:15:19 oscCellPack serviceOut
minor 5 ACTIVE 172.16.16.133 cell 2001-09-17 13:15:19 oscCellPack nvmFail
minor 6 ACTIVE 172.16.16.133 cell 2001-09-17 13:15:19 oscCellPack intrusiveT...
minor 7 ACTIVE 172.16.16.135 cell 2001-09-17 13:15:34 oscCellPack opticalLoss
warning 8 ACTIVE 172.16.16.135 cell 2001-09-17 13:15:34 oscCellPack batteryCo...
Alarm Filters
Severity All
Host Name All
Trap Type All
Ack
Clear
From 00:00:00
To 00:00:00
Instance Type All
Refresh
(yyyy/mm/dd) (hh:mm:ss)
(yyyy/mm/dd) (hh:mm:ss)
State All

FIG. 33